### World news

# German hunger strikers give up

Sir Jeffrey Sterling

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A hunger strike by jailed West German terrorists, which provoked a campaign of violence and bomb attacks, appears to be almost over at-ter most of the 37 protesters gave up their fast.

The crumbling of the hunger strike, which began in December and was aimed at winning prisoner-of-war status for Red Army Frac-tion captives, was followed by signs that a sympathy strike by convicted terrorists in France was also ending. The strike has been backed by some 40 bomb attacks in West Germany and the killing last week of Dr Ernst Zimmermann, president of the country's space, air and arms industry association.

industry association.
The increasing wave of terrorism in Western Europe is likely to rival economic issues in talks between Germany's Chancellor Helmit Kohl and Prime Minister Laurent Fabius of France in Bonn tomorrow. Page 2

### Gibraltar pledge

British Foreign Secretary Sir Geoffrey Howe pledged that Britain would never agree to transfer Gibraltar's sovereignty without the consent of Gibraltarians. The colony's border with Spain reopens at midnight tonight and Anglo-Span-ish telks on the Rock's future begin tomorrow. Page 2; Feature, Page 14

### Freeze hits U.S.

Snow storms and freezing weather . hit most of the U.S., including the "Sun beit." Meteorologists are trying to verify an automated equipment reading of 69.9 degrees Fahrenbeit below zero registered at Peter Sink, Utah, which would be a record low for the country. World weather, Page 14

# Official admits spying An Indian official suspected of in-

years, a Delhi magistrate said.

### Greek bomb claim

A previously unknown organisasaid it carried out the attack because the U.S. was responsible for the continued situation in Cy-

### Salvador truce hope

A campaign to vaccinate 600,000. hope that fighting between the country's left-wing guerrillas and U.S.-backed army would stop to allow doctors to work unhindered.

Page 2

wage semment mat will must increases in the public sector this year to 4.5 per cent Page 2

CHINA expects to spend well over show doctors to work unhindered.

Page 2 Salvadorean children began amid

### Saudi Gulf initiative

Sandi Arabia, backed by the Gulf states, has joined Syria, Algeria and France in a new initiative to end the Iran-Iraq war, a Kuwait newspaper reported.

# Castro seeks detente Cuban leader Fidel Castro ex-

pressed readiness for improved re-lations with the U.S. and offered cooperation in reaching international peace settlements in Central America and Angola. Page 2

# Tutu warning

Nobel Peace Prize laureate Bishop Desmond Tutu, installed as the first black bishop of Johannesburg, said he would call for punitive economic sanctions against South Africa tle apartheid within two years. \$755m in a move that will increase unless steps were taken to disman-

### Hawke under fire

operate with the U.S. in MX nuclear of the National Graphical Association in the Proofreading room in holds EEC talks, Page 3

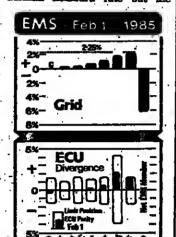
# Business summary

No. 29,541

# China to compete in satellite launching

CHINA intends to compete with or ganisations in the U.S. and Western Europe in putting satellites into orbit with rockets, China's vice-minister of aeronautics, Li Xu-e,

CURRENCIES in the European Monetary System showed little overall change last week as the dol-lar remained confined to its recent trading range on fears of central bank intervention. Most attention was focused on sterling and its reaction to the latest Opec meeting. The D-Mark showed little reaction to a half-point increase in the West German Lombard rate but the



bank to increase its discount rate half a point to 5% per cent. The Dutch goilder was still the weakest member, however, while the Belgian franc paused after its recent steady improvement.

The chart shows the two constraints on European Monetary System ex-change rates. The upper grid, based An Indian official suspected of involvement in a spy scandoff interest ten markest currency in the systen, defines the core rules from
which no currency (except the line)
little as \$4 a time for more than two
years, a Delhi magistrate said. cy's divergence from its central rate against the European Curren-cy Unit (ECU), itself a basket of Eu-

market average shed 57.40 to 11,889.56. Page 24

state bond of the year, totalling FFr 15bn, to help finance the government deficit. Page 17

FRENCH Government won support of the bulk of trade unions for a wage settlement that will limit in

ent product groups to help to mod

INTERNATIONAL AERO Engines the British-Italian-German consortium, is to provide engines for the new version of McDonnell Doug-las's 150-seat MD-80 airliner. Page 3

MR T. BOONE PICKENS has expressed surprise that Phillips Petroleum's controversial recapitalisa-tion plan, which he precipitated through his hostile takeover attempt last December, had been "misunderstood" by the public. Page 17

AMERADA HESS, the secretive U.S. toil company, has reported a s4m fourth-quarier loss. Full-year earnings fell 17 per cent to \$170.5m.

TAFT BROADCASTING, the Cincimnati-based media group, is buy-ing 12 TV and radio stations from the Dallas-based Gulf Broadcast for Taft's share of the U.S. TV audiences from 9 per cent to 15 per cent.

Australian Premier Bob Hawke is we apologise for any typographical errors in today's edition arising from industrial action by members

# Reagan launches drive to rein in overspending

BY STEWART FLEMING IN WASHINGTON

launched a campaign for public sup-port for the 1986 budget proposals which he will formally send to Con-gress today, describing them as "the most exhaustive effort ever made to rein in the Government's

chronic overspending."

Even before Congress begins to debate the details of the President's recommendation that it increase government spending by only 1.5 per cent to \$973.4bn in the fiscal year beginning in October, leaders of the President's own Republican Party were making clear they would seek fundamental changes in the way the budget dollars are di-

Leader, said yesterday that he fa-voured a rise of only 3 per cent in defence spending in real terms rather than the 5.9 per cent Mr Reagan is proposing.

Defence spending, which the President is seeking to increase from this year's estimated level of \$246.3bn to \$277.5bn in 1986 and \$348bn by 1988, is the only big area of government spending for which the President proposes big in-creases. Included in this plan is a proposal to almost triple to \$3.7bn expenditure for the controversial Strategic Defence Initiative, the so-called "star wars" space defence system and \$4bn for the new MX

To make room for the continued expansion of the military budget and the rise in the costs of servicing a federal debt expected to hit \$2 tril-

PRESIDENT RONALD Reagan lion (million million) in 1988, Presi- age of financial support mean dent Reagan will propose a wide for hard-pressed farmers.
range of cuits and freezes in other

It is also clear that do It is also clear that despite the

areas of domestic spending with the \$51bn of spending cuts which Mr Reagan will ask Congress for, he avowed objective of cutting back avowed objective of cutting back the size of the federal Government. Many of these changes, too, are running into opposition on both sides of Capitol Hill.

Details of the President's budget plan have been widely leaked in advance as the Administration has will fail to reach his avowed target of reducing the federal budget defi-cit to about 2 per cent of gross naade, a goal which many economists believe is desirable if interest costs of the federal debt are to be brought

sought to test the mood in the country for the proposals it will make. In the area of the Agriculture De-

deficit and the history of recent efpartment, the President is already forts to control budget deficits, are retreating from the economies the he way the budget dollars are di-ided. Administration is seeking. In the face of a mounting financial crisis in the farm belt, officials are negotiating with Congress over a pack-

National defences

Pentagon: International Affairs:

PROPOSED SPENDING IN FISCAL 1986 \$285.7bn (\$253.8bn) - of which \$277.5bn (\$246.3bn)

General science, spec Energy programmes: Natural resources and Agriculture: Local and regional developments Education, training and social services: Health, including medicald:

General government, including Congress: General purpose fiscal assistance for state and local governments; Interest on national debt:

\$18.3bn (\$19.6bn \$9.3bn (\$8.7bn) \$4.7bn (\$8.2bn)

Indeed, the outlook for the budget

Details, Page 2

\$7.3hp (\$8.6hp

# Aid plan for farm debts

BY NANCY DUNNE IN WASHINGTON

MR JOHN BLOCK, the U.S. Agriwould announce emergency credit for many of the nation's debt-ridden farmers this week, but with 150,000

tion's proposal to reduce price sup-port by \$16bn over the next five FRANCE is today launching its first

"We all know we are going to lose some farmers," he said. "We know it is difficult out there but solutions are not easy to come by." He said the Administration was

proposing lower price support and a phase-out of farm subsidies to push agriculture towards a free market solution because "farmers do not want to be wards of the state."

Having tried and failed to win III, chairman of the House Budget culture Secretary, said yesterday support from farm states legisla- Committee, attacked the Administration tors for the Administration's pro- tration's proposals yesterday.

men are prepared to do more. Sena-tor James J. Exon, a Nebraska Democrat, and Mr David L. Boren, an Oklahoma Democrat, have notiaction on their Bill.

gramme in exchange for short-term aid Mr David Stockman, the U.S. budget director, is reported to have agreed to a scheme that will help

sponsibility for a bomb explosion at a bar near a U.S. air base in Greece that injured at least 78 people, most against the dollar. The Nikkei Dow Administration.

Saturday's half-day session, de of collapse, Congress seems prepared to a scheme that will help for the small farmers and for the some farmers by encouraging American agricultural community, pared to go even further than the against the dollar. The Nikkei Dow Administration.

In a television interview. Administration. farm loans, in return for more governs on rural water, rural electrification interview, Mr ernment guarantees on 90 per cent cation and rural housing programmes, as well as the direct of the loans. grammes, as well as the direct However, farm states Congress-loans to the small farmer." Appearing on the same television

programm with Mr Block, Mr De Von Lawn, president of the Nationan Oklahoma Democrat, have notified the Senate majority leader that when the Senate returns from its recess next month, they will introduce a farm credit Bill. They say they will halt more consideration on any other issues until them. they will halt more consideration ings, they have given their farms.
on any other issues until they get Agriculture is going to say No more', and they are going to take to Representative William H. Gray the streets."

# drop debt policy CIGNA, the U.S. insurance company, has scrapped its \$900m insur ance policy under which it agreed

Citicorp,

Cigna

to cover Citicorp, the biggest bank-ing group in the world, against losses on some of its loans to finan-cially troubled Third World coun-

The decision to end the eight-

month-old arrangement came as a surprise to many observers who thought that the novel insurance policy might be followed by other nternational banks anxious to protect their shareholders against the risks of the Third World debt crisis. Neither Citicorp nor Cigna elaboate on the reasons for ending their insurance contract. Late last Friday the two groups issued a brief state-ment from Philadelphia Cigna's base, saying they had "agreed to terminate their further obligations under a contract of convertibility and risk insurance entered into by a wholly owned subsidiary of Cigna

with Citicorp on May 17, 1984." The two companies would only say thet "market conditions have changed since that time, and the parties have agreed to the termination of the agreement on the basis of a mutually acceptable business

Although there has been considerable interest in Citicorp's attempts to insure itself against losses on its \$12bn of loans to Argentina, Mexico, Brazil, Venezuela and the Philippines, details of the insurance policy have been vague, and there had been reports that it had run into problems with U.S. insurance industry regulators.

The insurance contract was first disclosed in a routine filing with the U.S. Securities and Exchange Commission (SEC) by Citicorp last year. In a footnote to a table on its for eign loan exposure, Citicorp noted that it had acquired \$900m of con-

vertibility and transfer risk insur-ance in its second quarter of 1984. The insurance covering certain important developing countries pro-fected the bank against the risk of large losses from prolonged delays in receiving funds from a country because of a government'a inability or refusal to make the foreign exchange available.

taken out during a period when there was considerable concern that some of the world's most heavily indebted countries would not be able to meet their obligations to international banks and there were signs of considerable nervousness in the financial markets. U.S. bank shares fell sharply last May and there was talk of a "flight to quali-

# UK coal board expects surge back to work

BY JOHN LLOYD, INDUSTRIAL EDITOR, IN LONDON

THE majority of Britain's miners eaders will continue to refuse to sign an agreement with the National Coal Board (NCB) that unecon-omic pits should close - even if many miners return to work in the

next few weeks.

The NCB believes that many housands of miners will return, although some believe the build-up to a "surge" will take some days.

The debate on the coal industry

nounted today in parliament by the Labour Party will concentrate on calling for a resumption of talks and a meeting between the National Union of Mineworkers' leadership and Mr Pat Lowry, chairman of the Advisory, Conciliation and Arbitration Service, may keep alive faint hopes of a negotiated settle-

to return to work came last night with the news that 500 jobs had been lost at the Frances pit, in Fife, Scotland. The pit's one face had been burning for the past two A Scottish NCB official said that a further 1,800 jobs at the Seafield complex, to which Frances is linked, might also go if a second fire

were not controlled. He blamed the Scottish NUM for not instructing members to control the fire by cutting coal. Mr George Bolton, the Scottish NUM vice-

Union leaders bave discussed a They include:

 Continuing to press for talks with the NCB, but at the same time continuing to prosecute the strike as vigorously as possible. NUM leaders believe that in that

way they will retain their militant position, even if they lose their • Ending the strike without an agreement. That has found favour with some executive members. Its

advantages are that the union would not be compromised by any agreement on uneconomic pits, but would be able to live to fight another day," as one executive member put it yesterday.

Mr Arthur Scargill, the NUM

resident, said at the weekend that that plan was a \*complete fantasy.\*
• Calling on the Trades Union Congress to re-convene Congress. That ence of the South Wales miners over the weekend, and will be weeks, and now has to be sealed off. raised at the NUM executive meeting this Thursday.

South Wales leaders are calling for more support from the trade union movement, but are also looking for a new initiative to break the negotiating deadlock. Mr Michael Eaton, the NCB com-

munications chief, yesterday refused to give any forecast on numpresident, rejected the charge. He bers returning - but said they said the union had sent men down would "accelerate."

Coal board enigma, Page 5

# **Buhari offers hope of** return to civilian rule

BY MICHAEL HOLMAN AND PATTI WALDMEIR IN LAGOS

He implied that that would come only after three "very tough" years headquarters in Lagos, General Bu-of economic adjustment.

coup in 1964, reasserted Nigeria's were intrinsically unsuited to the rejection of the International Monetary Fund's terms for a 52.4bn loan. "I do not believe it is the Westtreatment of the case of Albaji Umaru Dikko, a former minister an politicians had failed.
wanted for alleged offences in Nigerian, had soured relations between the two countries.

Wanted for alleged offences in Nigerians should be allowed first to the two countries.

Continued on Page 14

General Muhammadu Buhari, has would continue to match Britain's held out for the first time the pros-North-Sea cil-prices even-if that pect of an eventual return to civilizant rule, preceded by a referendum to choose an appropriate politication of Petroleum Exporting Countries, in Geneva last week.

Speaking at his Dodan barracks cial Times, General Buhari, who tems adopted by the first and sec-took power in a New Year's Day ond Nigerian republics respectively.

He also made clear that Britain's minster or Congressional system that failed." He thought the Nigeri-

Continued on Page 14

# Olivetti chief buys majority control of IBP-Perugina

SIG Carlo de Benedetti, chairman of Olivetti, has bought majority con-trol of the Buitoni family's IBP-Perugina, the Parugia-based inter-national foods group. No price was disclosed but Sig de Benedetti is be-lieved to be paying at least \$40m. Sig de Benedetti's takeover was announced just as Gervais Danone, the French foods group, was near-ing what it regarded as its own purchase of IBP.

The takeover adds a large company to the Olivetti chairman's ex-

panding empire of financial and industrial holdings.

The weekend acquisition of 53 side Italy. However, the company is per cent of IBP shares from the Buitoni family and a further 10 per cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution in the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the same cent from Mr Gaith Pharaon, a Saudallian food substitution of the saudallian f di Arabian financier, was handled by CIR, Sig de Benedetti's personal

Sig de Benedetti's private holdings now include stakes in Olivetti, Espresso the newspaper publishing group, Italmobiliare, the engineerholdings company. Expresso the newspaper publishing
The IBP group products include group, Italmobiliare, the engineerPerugina chocolates and Buitoni ing, property, steel and financial

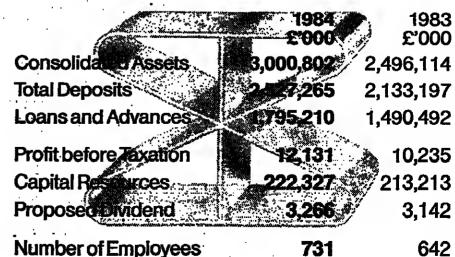
li tyres and cables group and is hoping soon to buy a big participation in the Mondadori publishing group. Sig de Benedetti described the acquisition of IBP in terms of the growth of CIR, his Turin-based holdings company. Apart from be-ing a holding vehicle, CIR also has tobacco machinery manufacturing and tanning activities in its own

Some of Sig de Benedetti's critics, however, fear he is too much of an empire builder and needs to spend more time on Olivetti and its marketing troubles in the U.S. Olivetti is working on a new U.S. strategy. IBP, which has been for sale for more than a year, made a L17.5bn loss in 1983. Last year a takeover by Poulain, the French confection fell through. The same has now

happened to Gervais Danone. Sig de Benedetti's offer for the company, the negotiations and the signing of an agreement at the weekend are said to have taken no.

# Scandinavian Bank Group

Highlights from audited Consolidated Accounts



Number of Employees

The hightights for 1984 are an extract from the Report & Accounts which will be filed with the Registrar of Companies and upon which the auditors have given an unqualified report.

# Scandinavian Bank Group

Shareholders: Skandinaviska Enskilda Banken, Bergen Bank, Union Bank of Finland, Skånska Banken, Landsbanki Islands.

International ..... Britain 4-6, 8 Lex. 14

Britain 15

Companies 18

Management 19

Men and Matters 12

Anglo-Japanese trade: heal- Lombard:

Editorial comment: cheap Gibraltar:

UK economy: the impact of Lex: the 3i turns a deaf 

pasts products. It had 1983 sales of group, and Euromobiliare merchant signing of an agree 1.963bm (\$493m), of which more bank.

He also has a holding in the Pirelmore than 24 hours.

\$34.9bn (\$33.9bn \$115.8bn (\$127.2bn \$25.8bn (\$25.8bn) \$6.6bn (\$6.7bn)

Head Office: Scandinavian House, 2-6 Carnon Street, London EC4M 6XX. Telephone: 01-236 6090 Telex: 889093 International Offices: Bahrain, Bermuda, Geneva, Hong Kong, Los Angeles, Madrid, Metbourne, Milan, Monaco, New York, São Paulo, Singapore, Sydney, Tokyo, Zürich.

NIGERIA'S military leader, Major He warned, too, that Nigeria

# **ANNUAL RESULTS**

# French unions back public sector pay pact

demand through salary increases later this year or early next, if the fragile recovery in French industrial

investment is not sustained.
The compromise between

unions and Government is in sharp contrast to last year, when the Government had to impose a wages settlement

following the breakdown of negotietions with the unions.

This year, the teachers union—the largest in the public service—is ready to sign the agreement. The pro-Socialist CFDT and the centrist FO

(Force Ouvriere) union are hesitant. Only the Communist-

The level of wage increase

in the public sector normally has an important influence on

private sector settlements.
The holding-down of real

The agreement in the public

consumers.
Orgalime is intervening in

THE FRENCH Government has won the aupport of the bulk of the unions for a wage settlement in the public service that will limit increases for public employees this year to 4.5 per cent, in line with the Government's officially targeted infla-

The Government sees the agreement as an important success in that it has resisted demands for extra increases in excess of inflation to compensate for poor increases in previous

A key element in the Government's anti-infletion strategy is to seek to hold down wages. The unions have found consolation in that the agreement contains a vaguely-worded safeguard clause permitting en additional increase if the 1985 inflation rate proves higher than official expectations.

inflation rate proves higher than official expectations.

This would be negotiated in the early months of 1986—or just before the legislative elections when the Government profit margin. will be in no mood to be tough towards the 42m public employees who have traditiontowards the 4.2m public service provides for increases employees who have tradition- of 1.5 per cent each on ally been among the Left's February 1, July 1, and supporters.

November 1. Overall, it means

In macro-economic terms, the an increase in public-service Government believes there salary costs of 5.2 per cent could he some case for increasing the level of domestic budgetary projections.

BY TONY WALKER IN CAIRO

Orgalime, the industry federation embracing companies

throughout the Community, bas

told Mr Karl-Heinz Narjes, the new commissioner for industry: "We must underline our total

opposition to any increase in the minimum prices in the near

an average rise of 3 per cent in

prices from April I. This would

BY IOHN DAVIES IN FRANKFURT

An official of the Interior

Ministry-which is concerned

with environmental controls—

said in Bonn yesterday that West Germany still had not reached any agreement with its

EEC partners and no compro-mise solution was in sight.

been intensifying their efforts lately to narrow the gap be-tween West Germany and some

of its partners, notably France, Italy and the UK, in the bope that basic agreement can be reached at e ministerial meeting

on March 7.

October.

**Engineering groups warn** 

**EEC** against steel price rise

ENGINEERING companies in is to push prices up as high as the EEC heve warned the the market will stand.

European Commission that any increase in minimum steel needs of the producers for prices will damage their competitiveness, harm their production prospects and hinder their investment plans.

But it has to balance off the needs of the producers for higher revenues, both to pay their pay and finance the costs of consumers.

for car emission controls

THE WEST German Govern- Government decided last Sep-

ment is holding firm to its con-troversial plans for tighter car new cars to observe U.S. emis-

emission controls despite pression standards by 1989 (and by sures for a European Community compromise making special provision for emaller litres).

# rock three W. Beirut banks

By Richard Johns in Beirut

VIOLENCE AND the drift violence and the drift towards anarchy in the pre-dominantly Moslem haif of West Beirut took on a new seriousness at the weekend, as bombs exploded outside three banks, and the exchange rate for the Lebanese pound sank to a record low.

Responsibility for the blasts was claimed by the Islamic Jihad organisation's "Brigade for Protecting the Poor in

The Saturday attacks, which left four people injured, were related to the further weakening of the Lebanese pound, which at the close on Saturday stood at 13.30 to the dollar compared with 12.52 on Friday. At one point it fell to 14 to the dollar, dealers said.

Bankers believe that the attacks may have been stimulated by the decision of Mr Nabih Berri, the main political leader of the Moslem Shi'tte sect, and Minister of Justice, to order the public presecutor to investigate suspected currency manipulation.

### Speculators

The decline of the pound has been the major cause of inflation in Lehanon, where 70 to 80 per cent of goods consumed locally are imported. Senior economists reckon that prices rose by about 50 per cent last year, though official estimates put the rate at half that.

After a Cabinet meeting on Saturday night—which was joined by Mr Edmond Naim, Governor of the Central Bank, and representatives of the Bankers' Association—Mr Rashid Karami, the Prime Minister claimed the Government had discovered "a conspiracy" against the Lehanese economy and currency, but

the Commission debate et this stage to avoid a repetition of the events of last September when it felt that the Commissions duty to consult it on changes in the steel controls was observed in the letter but The Commission is considering demands from Eurofer, the steelmakers organisation, for the steelmakers organisation organisation organisation organisation.

consultations.
Orgalime, in a letter to Mr latest round of minimum prices has not been bolding. The key point in its letter is that "at this stage of market

Commission as guardian of a development the minimum plan to restructure the EEC prices which are eald to have steel industry and administrator of an elaborate system of price cannot in our view be ebsorbed controls and production quotas, by the Community market." rough Société Financière dn Liban, the discount house owned by 33 banks and the Bonn stands firm on plans secondary market in govern-ment treasury bills.

In an interview last week, Mr Nasim Saliba, chairman of the company, estimated that 75 to 80 per cent of dealings had been made through it. with the rest of the business being done through inter-bank transactions. On the currency crisis day of January 25, banks had under-taken to cease doing business through brokerage firms.

Mr Berri is also leader of the Shi'ite Amal Militia, which controls the greater part of West Beirut. The shadowy Islamie Jihad

anti-pollution devices to exist-ing cars. Italy and France claim thet EEC officials in Brussels have be felt as a burden by motorists with modest incomes and smaller cars. Many motor industry executives elso believe that it is inappropriate simply to take over U.S. emission standards and that further improvements in engine technology would be a better way of tackling the Some diplomats believe the

One possible compromise under study involves different target dates for different sizes of cars—small cars with an engine capacity of up to 1.3 litres, medium-sized vehicles up to 2 litres engine capacity and larger cars.

Determined to be in the forefront of environmental improvement, the West German and better way of tackling the problem.

The Bonn Government is hoping to create more clarity on the issue through a speedy EEC agreement but is reluctant to lose face through a compromise. Herr Friedrich Zimmermann, the literior Minister, has already been obliged to tone down his original plan to introduce compulsory emission controls from next year.

new cars to observe U.S. emission standards by 1989 (and by

It has also drawn up an

eleborate scale of motor vehicle taxes to encourage motorists to buy new "en-vironment-friendly" cars before

these target detes and to attach

# **Bomb blasts**

Mr Berri has said that speculators could not be allowed to "skin the Lebanese people ailve" economically.

economy and currency, but gave no details.

His comments were widely regarded here as trying to find a scapegoat for a problem arising hasically from looming state hankruptcy, the exhaustion of foreign exchange reserves and the failure of the National Unity Government to assert its authority and bring about a madicum of security in areas under its control.

its centrol.

At a meeting late last month, the Bankers' Associa-tion reached a "gentleman's agreement" to curb speculative currency transaction and to follow guidelines aimed at

minimising day-to-day fluc-tuations in rates. Earlier, members had agreed to channel dealings

### Interbank

organisation, in whose name the slaughter of U.S. marines in 1983, and the bombing of the U.S. Embassy this year, was claimed, is thought to represent the Shi'ite extremist fringe, or possibly not to exist at all.

name may simply be used as cover for all sorts of violence by those wishing to destabl-lise Lebanou. They think the latest explosions could well have been the work of Communist, or left-wing, elements.

### U.S. BUDGET FOR FISCAL 1986

# Reagan seeks 1.5% rise in spending

BUDGET DEFICITS

PRESIDENT Ronald Reagan's bodget call for spending of \$973.7bn (£885bn) in fiscal 1986, which begins on October 1 is a 1.5 per cent increase over the \$959.1bn the Government estimates for the current year, fiscal 1985.

The growth rate in federal spending envisaged is the lowest since 1965, and amounts to a reduction in real terms, given that the Administration at 4.2 is estimating inflation et 4.3 The overall concept is e

"freeze" on government spending in which increases of about \$30bn in the defence budget are offset by similar reductions elsewhere. Spending cuts are proposed for eight of the 13 Cabinet departments, including Agriculture, Education, Energy and Housing and Urban Development

ment.
The savings proposed for 1988 would reduce the budget deficit to \$180bn, against the \$222.2bn now forecast for 1985. Projected spending in the coming year would be cut by \$47.5bn, of which \$38.8bn would be in domestic programmes and \$8.7bn would come from defence.

grammes and \$8.7bn would come from defence.

Another sum of almost \$3.3bn would be accounted for by reduced interest rates on government borrowing.

The savings would amount to \$239bn over three years. The budget should decline from almost 25 per cent of Gross

BY JONES IN JOHANNESBURG

Apartheid.

In his sermon to e congregation of some 2,000 at his enthronement in St Mary'e Cathedral as Bishop of Johannesburg, Bishop Tutu pledged he would call for punitive economic sanctions against South Africa, whatever the least consequence unless

the legal consequence, unless Apartheid is dismantled within

BY DAVID LENNON IN TEL AVIV

objections by some ministers to the price increases which were

Prices in Israel on 400 items were due to rise by between 5

and 20 per cent as the three-month "package deal" control-ling prices, wages and taxes ended last night to be replaced by a new, more flexible "pack-

The first agreement drametic-

ally curbed inflation, reducing the monthly inflation rate from

over 20 per cent in the months

Israeli Cabinet to meet

over planned price rises

due to go into effect this morn- in the wake of the increased

preceding the package deal, to of imports, generally regarded

nder 4 per cent in December. as the minimum which should be held.

With cuts and savings proposed in budget: 222.2 180.0 Years are fiscal years, e.g. fiscal 1986 starts October 1, 1985, National Product this year to of total spending for that year, against 26 per cent this year, eccording to the Government's For the coming year, Mr projections.

The spending reductions are increases in new epending on the spending of the spending for that year, against 26 per cent this year.

247.8 232.8

1987 1988

somewhat less than the \$500n nuclear weepons and spece research, with the avowed aim of strengthening the U.S. bar-gaining bestill be over \$800n—compared with Mr Reagan's original pledge to balance the budget by 1934.

The 1989 decided in increases in new epending on nuclear weepons and spece research, with the avowed aim of strengthening the U.S. bar-gaining position in the forth-coming arms negotiations with the Soviet Union.

Research on space weapons would be a second or space weapons would be a second or space weapons to the second or space weapons and spece research, with the avowed aim of strengthening the U.S. bar-gaining position in the forth-coming arms negotiations with the Soviet Union. by 1984.

The 1988 deficit would be solve to \$3.7bn. Some \$4bn \$144.4bn (or 2.9 per cent of would be allocated for 48 more GNP)—considerably short of MX inter-continental ballistic the Administration's initial target of only shout \$100bn by that year.

Research on space weapons would be nearly tripled from \$2.7bn. Some \$4bn would be allocated for 48 more than the space of the spa

that year.

The major increases for 1986 of all the major weapons planned by Mr Reagan as part in defence, where Mr Reagan is seeking \$313.70n in spending authority—a real increase of 5.9 per cent neer this year. Actual spending outlays would rise from \$246.30n this year to \$277.50n ln 1986.
Ontlays always run below spending authority, which includes the commitment of funds to be spent in future years.

to be spent in future years. for the Air Force's anti-Actual military outlays are pro-jected to reach \$418.3bn in 1990, representing 35 per cent defence budget, however, would

the divisions in the Church caused by his appointment as Bishop of Johannesburg and to dispel any fears that he was more a politician than a pricest.

He edmitted that disinvest-ment would lead to hardship for

blacks but cited last November's two-day general strike as

evidence that blacks were "ready to accept edditional suffering if it will change

BY TONY WALKER IN CAIRO

Israel, with a concerted lobby-ing effort in Washington.

Three Egyptian Ministers will visit the U.S. this week to argue for an increased allocation and

to prepare the ground for the trip to Washington in March of

Egypt's President Hosni Mubarak for talks with Presi-dent Ronald Reagon on economic assistance and U.S. participation in Middle East

peace efforts.
Dr Kamal El-Ganzouri, Minis-

ter of Planning and Inter-national Co-operation, who is directly responsible for the aid programme, is now in Washing-

ton for talks with U.S. officials,

Egypt to press U.S. for

extra \$1bn in aid

Tutu 'prepared to call for disinvestment'

THE ISRAELI Cabinet will Government comes in response meet in emergency session this to protests by some manufaction of discuss last-minute turers and professionals that objections by some ministers to the new prices are too low to large increase which were allow then to operate workship.

BISHOP DESMOND TUTU, the Nobel Peace-Prize Laureate, burg is the second in the South see Aparthcid dismantled."

African Anglican hierarchy, his preparedness to break the law and call for disinvestment unless South Africa dismantles Soweto and which has a predominantly black membership, in the divisions in the Church caused by his appointment as country.

While stressing the need for Christian fellowship in South Africa's divided society, Bishop Tutu made clear that blacks were not seeking "an amelioration or improvement of the Apartheld dispensation," such as are brought about by the various labour practice codes.

the new prices are too low to allow them to operate profitably

costs of various goods and ser-

Government subsidised goods

went up by 20 per cent last week and are expected to rise

by another 25 per cent this month. Postal rates rose yester-

day by 100 per cent.

Meanwhile Israel's foreign
currency reserves fell \$20

(£251m) in January to stand at \$2.3bn, which is equivalent to

less than three months' worth

country.

be the lowest since Mr Reagan took office four years ago.

Mr Gaspar Weinberger, Defence Secretary, has already cut
\$35.9bn from the original
request he compiled just over
a year ago, although that will
be the orough to satisfar Connot be enough to satisfy Con-gress, which is demanding further substatutial reductions.

The domestic savings are to be achieved by freezing most programmes at this year's levels, reducing others and eliminating 25 major programmes entirely — including subsidies for the Amtrak railway system, the Small Business Administra-tion and direct loans by the Export-Import Bank.

Cost-of-living increases for federal pensions and some bene-fit programmes would be frozen for some years, although e number of programmes for the poor would be adjusted for infla-

Pay for federal employees including civilian Pentagon employees — would be cut by 5 per cent from 1985 levels, and the administrative costs of government, including Congress, would be cut by 10 per

research into the proposed new small, mobile, single-warhead missile known as the Midgetman.

There would be a 30 per cent increase to \$262m in funds for the Air Force's antisatellite weapon.

The overall increase in the defence budget, however, would the small resulting for the states.

\$3.4bn; education, training and social service programmes, \$2bn; and veterans' programmes, \$1.1bn.

In calling again for dialogue between black and white. Bishop

Tutu welcomed indications that the Government may now be

talking to the African Netional

Congress (ANC), He repeated an earlier offer

to act as an intermediary between the Government and

Calming fears that travel would take precedence over his diocesan duties. Bishop Tutu said that he had turned down

tations involving travel which he had received.

Apartheid.

the ANC,

**Brazil debt** deal 'only needs IMF green light' interna

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The agreement is a greenment in the last reached with

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A GREEN light from the Interinational Monetary Fund, is Brazil's bank advisory commit-tee in New York, is believed to be all that remains to wrap up the largest, and most far-reaching, debt renegotiation package in history.

Reports from New York over Reports from New York over the weekend say that outline negotiations, between Brazilian Government officials and the 15 bank Advisory Committee, were concluded on Friday, with only minor technical details femaling to be aettled. According to usually well informed press reports here, the \$45.3bm (£40bm) package includes: e 16-year repayment term, a 7-year grace period although some repayments will begin immediately — and an

begin immediately — and an average "spread" over Libor of 11 per cent. Sr Affonso Celso Pastore, the

central bank governor and head of the Brazilian delegation, was on his way back to Brazil, this weekend, following a brief statement from the committee that "substantial progress," had been made in the six weeks long talks.

Everything now depends on M Jacques de Larosiere, the IMF managing director. His difficult task will be to decide whether despite Brazil'e consistent failures on the domestic side of its adjustment programme, there are grounds to justify endorsing the rescheduling package reportedly agreed in principle with the banks.

A technical mission from the IMF is due in Brazil this week, Led by Mr Thomas Reichman, head of the Fund's Atlantic Division, its ostensible purpose will be to check the country's economic performance in the last quarter of 1984 and to nego-tiate new goals for this year.

This is required before anthorisation can be given for the disbursement of the next \$350m tranche of the DMF's Extended Fund Facility Loan to Brazil due an March I. Failure to disburse this loan would be interpreted negatively by Brazil's 740 bank creditors around the

world.

In practice the mission will probably be looking closely at whether the outgoing Figuel-redo Government, due to hand over power in six weeks time, is taking adequate measures. over the control of the money supply and public spending. In Washington last Friday, where be met President Ronald Reagan and Mr George Shultz, the U.S. Secretary of State, Sr Tancredo Neves, Brazil'e presi-

dent-elect, said that agreement on a renegotiation package would be more difficult if it were not concluded before he takes office on March 15.

### El Salvador set for day's truce By Davld Gardner in

EL SALVADOR was yesterday

looking forward to a brief, respite in its five-year-old civil war, as fighting was due to stop for the day to allow an internationally backed vaccination campaign to go ahead. The campaign, backed by the

United Nations Children's Fund (Unicef), aims to immunise up to 600,000 children under five against polic, diphtheris, tetanus, whooping cough as 1 dipbtheris. measles. No formal ceasefire had been

agreed between the army and left-wing insurgents of the Farabundo Marti National Liberation Front (FMLN) but Unices officials said they boyed both sides would observe what they described as "a tack Mon Gregorio Rosa Chavez

suxiliary bishop of San Salvador and e key mediator country's most sensitive naval installations.

Mr Bodstroem said in a statement late yesterday that it was nationality of the intruders, not their existence, which he had called into question. He said there was no evidence the intruders were Soviet.

Mr Kyprianou, who remained isolated following attacks by the two largest parties, the right-wing Damocranic Rally said yesterday the guerrilles munist Akel party, insisted that he still enjoyed the support of lithe "great majority" of the Greek-Cypriot people.

# Submarine denial sparks row

BY DAVID BROWN IN STOCKHOLM

A POLITICAL storm broke out non-Socialist opposition and who chaired the submarine coming Slockholm yesterday followforced him to issue a "elarification" in an attempt to defuse believe the Foreign Minister 

criticism from within Mr Bodstroem's political party, the Defence Establishment and the Defence and Foreign Minister, truders were Soviet

a parliamentary investigating commission and the military supreme command.

The articles published in Sweden's major newspapers self, his Government and—what yesterday prompted waves of is far worse—his country."

Mr. Sten. Anderson, the Mr Sten Andersson, the former Social Democratic

ties "—probebly by foreign submarine forces — continued late last year around the country's most sensitive naval

# Kyprianou will stay on'

Dr Esmat Abdel Meguid, the Foreign Minister, will also be in Washington this week for meetings with Mr McPherson, Mr George Bush, the Vice-President, and Mr George Shultz, Secretary of State.

A third minister, Field Marshal Abdel-Halim Abu Ghazala, begins a 10-day visit to the U.S. at the weekend to discuss military aid

The Egyptian Defence Minis-

The Egyptian Defence Minister will discuss particularly the production in Egypt of spare parts for U.S. made F-16 war-aircraft and the possible delivery of another batch of the aircraft.

By Our Nicosia Correspondent

or hold early elections, follow-ing the collapse of talks in New York last month with Mr Rauf Denktash, the Turkish-Cypriot leader, on a federal settlement of the Cyprus problem.

PRESIDENT Spyros Kyprianou of Cyprus yesterday turned down suggestions from the opposition that he should resign

Britain's Foreign Secretary, yesterday gave a renewed pledge that Britain would never agree to a transfer of sovereignty over Gibraltar with-out the consent of the Gibral-

out the consent of the Gibral tarians.

Str Gcoffrey, interviewed in the Independent TV programme Weekend World, also stressed that this view was basically shared by the Spanish Government.

Str Gcoffrey, interviewed in the border, closed by Gen Franco's Government in 1969, but the basic only for Gibrakar and Spanish citizens since 1982.

Str Fernando Moran, Spanish

of Gibraltar. The one-day meeting will finalised.

GEOFFREY HOWE, foilow the full opening of the n's Foreign Secretary, border to all traffic between the state Britain would never to a transfer of gignty over Gibraltar with the signity over Gibraltar with the full opening of the significant s

Sr Fernando Moran, Spanish Foreign Minister, interviewed The Foreign Secretary'a in the same programme, conremarks were made on the eve firmed the Spanish Governof the opening of talks in ment's desire to avoid a class.
Geneva tomorrow between with Britain over Gibraltar at
Britain and Spain on the future a time when Spanish entry into the EEC has not yet been

These fears were quickly strengthened early yesterday morning when a bomb shattered e bar in an Athens

Tetror groups, among them the RAF and Action Directe in France have made it clear in pathy hunger strike by convicted terrorists in France was ending.

Authorities in West Germany believe that with the slaying of

AN explosion in a suburban Athens bar on Saturday night near a U.S. air force base, which injured more than 60 Americans, mostly sorvicemen and their wives was caused by a "powerful time bomb," Greek police said. AP reports from Athens. Security police said experts sifting through the wreckage of the bar found "traces of a timing device."

Murder of industrialist signals end of hunger protest

French Defence Ministry offi-clal, in front of his home in Paris just over e week ago.
Papers found hy the German
police when they reided an RAF
stronghold in Frankfurt last
year indicated a great deal of
research had been made into

Action Directe claimed finding ways to combat the responsibility for killing Franco-German twist to the General Rene Aodran, e senior terror attacks, and the French Defence Ministry official, in front of his home in by the RAF and Action Directe that they were combining their efforts, is likely to rival economic discussions when the French Prime Minister, M Laurent Fablus, visits Bonn for brief summit talks tomorrow.

research had been made into arms co-operation between France and West Germany.

In December, a military authorities not only because of the case with which it appears in Bonn was blown up by the RAF.

While military targets in Belgium and Portugal have also because of the sophistication of some unexploded bombs that have been found, will almost certainly prove a major

security and political headache for the Government of Chancellor Helmnt Kohl which is hosting the annual world economic security authorities is that

ing the annual world economic summit near Bonn in May.

Chancellor Kohl had especially brought the summit date forward, to coincide roughly with the 50th anniversary of the Nazi surrender on May 8, in the hope that the presence of major Western leaders in the country at the time might help restore whatever German pride was lost when the former Allies falled to invite him to the Normandy landings celebrations last June.

Given the avowedly anti-Nato and anti-U.S. stance of the

Bonn summit is likely to be un-precedented, and could threaten its usefulness as an exercise in political public relations for Chancellor Kohl.

security authorities is that having virtually written off the RAF last year, suggesting the hard core numbered around 20 terrorists, they have been unable to find them. They further concede that the new spate of activity, coupled with the hunger strike, has probably hoosted recruitment.

entered Dr Zimmermann'e unguarded house and shot him. that much-frumpeted security measures, taken in the past few weeks have been found wanting

provement, the West German trois from next year. MOST of the 37 imprisoned West German terrorists who have been on hunger strike since early December began taking food again at the week-Or Zimmermann, president of the German space, air and arms industry association, and chief executive of the Motoren und Howe renews pledge on future of Gibraltar Turbinen Union, which makes engines for Nato fighters and end, just some hours after sym-pathisers in the Red Army Fac-tion (RAF) claimed responsi-bility for killing Dr Ernst Zimmermann a senior German BY ROBERT MAUTHNER, DIPLOMATIC CORRESPONDENT

> The disintegration of the The disintegration of the West German hunger strike, aimed at winning prisoner of war status for the RAF captives and in support of which the RAF has made about 40 bomb and arson attacks on Nato, Western diplomatic and commercial targets since mid-December, was immediately followed by signs that a sympathy hunger strike by con-

industrialist, near Munich on

tanks, the new wave of ter-rorism in Western Europe has been taken a step further, ren-dering the hunger strikes poli-tically redundant.

suburb, injuring 78 people, most of them U.S. military personnel from a nearby U.S. air

and anti-U.S. stance of the terror groups, security at the

plans to take part in the capitulation anniversary could also It is also elear, given the ease with which two RAF members

precedented, and could threaten its usefulness as an exercise in published daily except Sundays and holidays. U.S. Subscription and president Roneld Reagan's plans to take part in the capitutation anniversary could also

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# **International Aero** Engines, McDonnell Douglas sign deal BY LYNTON MCLAIN

INTERNATIONAL Aero Engines has signed a memorandum of understanding with MacDonell Douglas of the U.S. for a new version of the MD-80 airliner to be powered by IAE's 25,000-lbs thrust engine. The aircraft will be launched when the first orders come in.

The proposed airliner, formerly known as the MD-89, will have 150 seats and will be in direct competiton with Airbus Industries' A-320 airliner. International Aero Engines and MacDonell Douglas will

Jointly market the new airliner, IAE said yesterday.

Rolla Royce and Pratt & Whitney of the U.S. lead the IAE engine consecution. IAE engine consortium each with 30 per cent shares in the company and the promise of 30 per cent of the work on engine orders. Japanese Aero Engines has a 23 per cent share; MTU of West Germany 11 per cent, and Flat Aviazone of Italy 6 per cent.

cent, and Fiat Aviazone or many 6 per cent.

The total world market for engines in the 25,000-lbs thrust category could reach 7,000. These would be worth £27bn over the next 20 years and IAE expects to win half the orders. The main competition is from the Franco-U.S. CSM 56 engine from GE/Snecma.

THE HONG KONG Government last week announced plans to redraft air service

plans to redraft air service agreements on flights between Hong Kong and London, David Dodwell writes from Hong Kong. The changes will mean that British Airways will in future have to obtain a permit to fly into the territory.

The changes in air service licensing requirements mark the first step towards disentangling Hong Kong from British colonial control before 1997, when mainland China will regain sovereignty of the territory as a. "special administrative region."

Until now, British Airways has had the privilege of being able to fly into Hong Kong as if it were a domestic British airport.

manufacturers for its C-2500 advance technology engine. The company already has an agreement with Airbus Industrie for the engines to be used on the

over the next 20 years and IAE expects to win half the orders.

The main competition is from the Franco-U.S. CSM 56 engine from GE/Snecma.

The agreement is the second IAE has reached with airliner

A-320.

Pan American World Airlines has ordered 16 A-320s all to be powered by the IAE engine. This agreement is "near to a firm contract." IAE said yesterday. Pan Am bave options of a further 34 A-320s.

# Hawke to tell EEC about **Australia's CAP worries**

BASE LENDING RATES

BY QUENTIN PEEL IN BRUSSELS

MR BOB HAWKE, the Aust- the commissioners responsible ration Prime Minister, will today for hold talks with M Jacques external relations and energy. Delors, the new president of Mr Frans Andriessen, the the European Commission, Farm Commissioner, is likely which will inevitably focus on to spell out bow he sees the Australia's concern about the effects of the Commission's effects of the EEC's Common latest farm price proposals on Agricultural Policy on its own international trade, arguing agricultural exports.

the problems of how the Com- should belp ease tensions. munity is disposing of its dairy surplus on the world market.
Australia is also worried about
the disposal of EEC beef and
sugar and the access of its own beef to the European market.

Apart from meeting M Delors, Britain the Australian Prime Minister third o will have round-table talks with trade.

agriculture, industry,

that by generally freezing the Mr Hawke is expected to reise present level of support they

The Community enjoys a surplus of some Ecu 1.5bn (£900m) in its overall trade with Australia, importing goods worth some Ecu 3.1bn and exporting more than Ecu 4.6bn. Britain accounts for about onethird of the total EEC-Australia

Knowsley & Co. Ltd. ... 141% Lloyds Bank ...... 14 % Edward Manson & Co. 15 %

National Westminster 14 Norwich Gen. Tst. ..... 14 People's Tst & Sv. Ltd 15

People's Tst & Sv. Ltd 15 % Provincial Trust Ltd. 15 % R. Raphael & Sons ...... 14 % P. S. Refson ......... 14 % Roxburghe Guarantee 141% Royal Bank of Scotland 14 %

Royal Bank of Scottand 14 %
Royal Trust Co. Canada 14 %

J. Henry Schroder Wagg 14 %
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# Japanese group quits Canadian LNG scheme

THE SPONSORS of en ambitious project to ship liquefied natural gas from western Canada to Japan will press ahead with the scheme despite the withdrawal of one of five prospective Japanese customers. The Canadian companies participating in the C\$3.5hn (£2.64bn) venture, known as the Western LNG project, said they are interested in pursuing a scaled-down version with the

four remaining buyers. How-ever, the Calgary-based project manager Mr David Bramsen said that the withdrawal of Osaka Gas Company "has to be a setback, because we bave be a semack, because we have to do a revaluation. It has to be an economically viable pro-ject before anyone signs."

Osaka Gas said last week that protracted delays in finalising

prices and other arrangements forced it to cancel its participation. The company was due to take 550,000 tonnes of LNG a year out of the total contract volume of 2.9m tonnes. An Osaka official said it would burn to Indonesia and other sources to supply LNG for a natural gas conversion, plant under construction at Himejl

in western Japan. The western LNG project has been on the drawing boards since 1980 when it was initiated by the ailing Calgary energy producer Dome Petroleum. That also involves the statement of the contraction of the co plan involves construction of e gas liquefection plant and marine terminal north of Vancouver, as well as investments in pipelines and sea-going LNG

The project appeared doomed a year ago by delays in obtaining export permits, disagree-ment on prices and financing problems. It was revived when Dome withdrew from active participation last September, and the Alberta Government approved a long-awaited export

Doma's former partners — Union Oil of Canada and the local subsidiary of Nissho Iwai — have taken the lead in pressing ahead with negotiations with the group of Japanese

# Anglo-Japanese 'wise men' seek to heal rifts

AS EMPLOYMENT Secretary, personal blessing of the two Mr James Prior sought to tame Frime Ministers, Mrs Margaret the trade unions by stealth, be was dubbed "Pussyfoot" by the

Now a backbencher and organiser, Mr Richard Needham, chairman of GEC, the former MP, a long-time confident of Mr Conservative Cabinet Minister Prior has found himself a new role as leader of an economic and cultural peace offensive into

He is chairman of a committee of "wise men" called the 2000 Group that landed in Tokyo this week-end for three days of discussion about issues that divide --- or that should - the world's two largest island economies.

Loosely modelled on Anglo-German Koenigswinter conferences instituted after World War II, the group claims to be the first permanent bilateral forum for reconciling British and Japanese interests. The group bas its Japanese counterpart, likewise composed of politicians, businessmen and academics. The forum bas the

Prime Ministers, Mrs Margaret Thatcher and Mr Yasuhiro Nakasone who will receive right-wing press. As Northern reports of this first encounter. Ireland Secretary, the conclicatory Mr Prior endured a kind of political exile in Ulster's civil war.

Northern reports of this first encounter. Relations between Britzin and Japan have never really recovered from World War II, according to the group's corrections of the group's corrections.

> He said the Japanese, none the less, regard Britain as their closest Western equivalent despite the obvious culture gap —and as their "window onto tha EEC." Mr Needham said: "They want to end their isolation, but they need outside pressure and Japan's persistent trade sur-

tries are clearly the chief ceuse of economic friction. Not only that, but many British businessmen share the suspicion that Jepan likes only to sell, but not to buy. Japanese investment in Europe—most of it in Britain for leaves and extractions. for language and other cultural reasons—may be welcomed by govarnments, but is still seen by domestic competitors as a Trojan horse. The mistrust per
stil, despite a pervasive—it defensiva — propagande campaign by Japanes eembassies.

This week's forum will have a wide agenda. Today tha proceedings open with a review

Mr Prior: leader of a peace

sista, despite a pervasive—if de fensiva — propagande campaign of mutual perceptions, moving British Institute of Manage on to macroeconomic matters ment; Sir Julian Ridsdale, and Jepan's instigation of a new Conservative MP for Harwich round of trade negotiations in Lord Sandon, chairman of the General Agreement on Tariffs and Trade.

The two teams will look at the possibilities for industrial Its defence procurement and policy towards the Soviet Union and China are also down for

The expenses of the British team are being met from private sources, with some belp from the Foreign Office. Mr Needham said it was hoped to set up a private foundation to guarantee the group's future. The members of this week's delegation under Mr Prior are: Sir Terence Beckett, director general of the Confederation of British Industry; Mr Brian Beedham, foreign editor of The Economist magazine; Mr Alan Budd, professor of economics at the London Business School; Admiral Sir James Eberle, director of the Royal Institute of International Affairs; Sir Peter Parker, president of the

Conservative MP for Harwich International Westminster Bank; Mr John Smith, Labour trade and industry spokesman; Dr William Wallace, director of collaboration and for joint the Institute of Strategic ventures in third markets. Studies; Sir Michael Wilford, Japan's relationship with Nato, director of Lloyds Bank International and Mr Nicholas Wolfers, a director of Samuel

Jurek Martin adds from Tokyo: The Japanese side under Mr Tadao Kato, a former ambassador in London, includes some industrial heavyweights, among them Mr Shoichiro Toyoda president of Toyota, Mr Keizo Saji, chairman of Suntory, the giant distiller, which is said to be Japan's largest privately owned company, and Mr Tadahiro Sekimoto, president of Nippon Electrics.

It also contains e handful of men known to he close to the Prima Minister, Mr Nakasone, among them Prof Masataka Kosaka, from the University of Kyoto, and Mr Motoo Shiina, a member of parliament.

### Strong dollar hits newsprint By Tony Jackson

NORTH AMERICAN exports of newsprint were badly bit last year by the strength of the dollar. Canadian shipments to Western Europe were down 21 per cent on 1983 levels, and thare was a 16 per cent fall in exports to South America.

While there was growth in exports to Asia, Oceania and Africa, Canadian shipments out-side North America were down

side North America were down 5 per cent overall by volume, says the Canadian Pulp and Paper Association. The U.S. picture was similar, with an overall drop of 3 per cent, and there was a remarkable threefold rise in U.S. imports from countries other than Canada, equal to almost 2 per cent of national consumption. cent of national consumption With the strength of the U.S. economy, bowever, consumption showed a healthy rise. The estimated tonnage used by U.S. daily newspapers was up 5 per cent, at 8.3m tonnes.

### SHIPPING REPORT

# Revival in dry cargo rates 'rather late in coming'

INCREASED activity by the lower et 971.5, down from 975 Soviet Union in the Atlantic and the Japanese in the Pacific provided some optimism to the dry cargo shipping markets last week.

Although rates remained to the Opec accord as well as increased chartering.

Although rates remained largely unchanged, one of two improvements were recorded and brokers were looking forward to some increase in rates

increased chartering activity of the Iranians. Rates, however, have yet to improve Sale and purchase markats merkets had a busier week

RETAIL PRICES

ward to some increase in rates in the weeks ahead.

"This represents the revival we usually see after the New Year," said Eggar Forrester, th London-based ship brokers, "only this year, it has been rather late in coming."

Eggar Forrester reported that at least one vessel was fixed from the North Pacific to Japan at \$8.50 per tonne, well up on last week's rate of below \$8.

Sale and purchase markats merkets had a busier week with a number of Very Large Crude Carriers and Ultra Large Crude Carriers changing hands. The best price reported was \$8.3m for the ULCC Sea Song, a 1977 vessel bought by the Iranians. There were reports struck on the sister vessel Sea Saga. Sales of dry cargo vessels were more disappointing with a 1976 Panamex selling rather late in coming."

Eggar Forrester reported that is least one vessel was fixed from the North Pacific to Japan at \$8.50 per tonne, well up on last week's rate of below \$8. Patchy trading was mirrored by the Baltic Freight Index (BFI) for \$6.25m, a significant decrease over recent months.

> Increme OVEF

WORLD ECONOMIC INDICATORS (1975 = 100)

	Nov. '84	Oct. '84	Sept. '84	Nov. '83	previous year %
W. Germany	145.4	145.0	144.1	142.2	2.2
France	251.2	250.4	248.9	235.2	6.8
taly	392.7	390.4	386.7	360.4	<del>7</del> .0
Netherlands	163.9	163.6	162_3	158.2	3.0
Belgium	185.1	185.1	184.2	175,8	5.3
UK	266.1	265.3	263.7	253.6	4.9
J.S.	195.5	195.9	1 <b>95.</b> 1	188.0	4.0
anen	. 155.0	155.8	154.6	151.7	2.2

### on technology imports BY JONATHAN CARR IN DAVOS CHINA EXPECTS to spend involvement with

China plans to spend \$1bn |

more than \$1bn this year on imports of technology from more than 1,000 different product groups to belp modernise its economy. New opportunities will also emerge for foreign business-

men in China's next five-year plan (1986 to 1990) expected to be announced this autumn.
This was made clear this weekend by Weizhong Fang-vice-chairman of China's Stata senior executives and politicians attending an internatioal sym-posium bere organised by the EMS Foundation, e non-profit making organisation based in

partners. Weizhong noted that his country had so far attracted \$4.85n worth of capital from abroad— including loans and sums ploughed into joint ventures. Of that total, \$2.75n had been put to use last year. In 1984 China had further reached agreement on about

700 different projects with foreign partners—as many as it bad concluded in the five previous years put together.

• Volkswagen of West Germany plans to build 100,000 cars poslum bere organised by the emulally at a Shanghai plant by emulally at a Shanghai plant by embedding, e non-profit making organisation based in Geneva.

Giving details of the growing Chinese Government said Friday, AP reports from Peking.

Giving details of China's economic Gay, AP reports from Peking.

Giving details of the growing Chinese Government said Friday, AP reports from Peking.

Giving details of the growing Chinese Government said Friday, AP reports from Peking.

Giving details of the growing Chinese Government said Friday, AP reports from Peking.

Giving details of the growing Chinese Government said Friday, AP reports from Peking.

# Egyptian export bank opens for business

BY TONY WALKER IN CAIRO

br Hazem el Beblawi, chairman of EDBE, said the new bank will concentrate at first ing that the funds should be on trade financing. It is also considering requests for project finance. After a year it plans to introduce a credit-backing scheme like those offered by Britain's Export Credit Guarantee Department to because of disagreements over exchange rates. Egypt is arguing that the funds should be allocated at low official rates of exchange. The World Bank believes they should reflect a more realistic market value.

Dr Beblawi supports the World Bank point of view saying: "I think it is essential for the property of the property

EGYPT'S new export develop- too heavily on "unsustainabla ment bank, EDBE, opened for business yesterday with an authorised capital of E£100m (£92m) and promises that it would help develop fresh markets for Egyptian products.

Dr Hazem el Beblawi, chair-products are tellocated because of disagreements over explance rates Egyptias export is ergulated.

February 4, 1985



This announcement appears as a matter of record only.

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cording to a report by a committee of the National Economic Develop-

It says that in the next phase of developing the UK's offshore re-sources, 60 to 60 oil and gas fields will be opened up in the next 15 years. Many of them, however, would require new forms of sophispliers have not traditionally been strong and they would fail to secure this business without big improve-meets in expertise and efficiency.

The committee, which began its study two years ago, also recom-mends formation of an industry-led strategy for identifying weakness in research and establishing priori-

Mr Aliek Buchanan-Smith, oil and gas minister, is understood to have eccepted this recommendation and will shortly announce the forof which he will be chairman.

90 per cent of orders for the UK

HIGH PRICES, weak management and inferior design may deprive the UK of billions of pounds worth of orders from the offshore oil industrial from the try by the and of the century, ac they may lose valuable orders in the next phase of the UK's offshore expansion. Maurice Samuelson reports

dustry must now respond to the ticated equipment in which UK sup- new types of field coming under de- cal advantage of being in the UK. velopment and recognise the in- an advantage which does not exist creasing importance of cost reduc- when bidding for overseas work. tion and control, good marketing

Winning this market is all the more important because the North Sea will set the pattern for developtha world, presenting export oppor-

The report, which reflects the atnat of o special edvisory committee
of which he will be chairman.

The Nedo report prefaces its criti
of the UK Offshore Operators Asso-

While noting the improvements continental shelf have been placed in UK yards in recent years, the agement overheads between UK in the UK, together with 86 per cent team reports concern that their and overseas.

of orders for the associated plant prices are consistently higher than and equipment, those of overseas fabricators and It says, however, the supply in- says they have won North Sea business mainly because of the logisti-

Referring to the "major weak-ness" of management in many UK yards, the committee says this weakness will become "increasingly critical" as multi-order, multi-client fabricating becomes more common. The most competitive yards, it adds, are those with the most flexible

titudes of customers for UK-made equipment and structures, is the work for a 17-man team, drawn from both the oil and gas industries price and the actual out-turn cost to

the customer.

The committee recommends a detailed examination of the reason for price differentials, concentrating on comparative labour costs and man-

In the equipment sector UK sup-pliers are found to be on a par with overseas competitors in terms of delivery, price, quality and capability. The report, however, voices doubts about possible higher levels of price, lack of co-ordination between marketing and production staff and a lack of flexibility on de-

In research and development, the committee says it is difficult to assess how much was being spent in the UK. Recent estimates suggested an annual expenditure on offshare product development of 280m, with half coming from oil companies and the rest split between suppliers and academic or re-

It compares this with the £70m spent in Norway on a much smaller industry and the situation in France where C50m was channelled

It calls for the creation of a "strong co-ordinating body repre-senting the industry and Government" to review the strategy for

end of February. Offshore supplies, Performance and Prospects; Joint Offshore Commit-tee of the Engineering, Construction and Process Plant EDCs, Nedo, Millbank Tower, Millbank, London

# ICI and Enichem fail in attempt to lift PVC price

BY TONY JACKSON

ICI and Enichem, the Italian chemicals group, have falled in their at- 20 per cent of the world PVC martempt to raise prices for polyvinyl chloride (FVC). The attempt was thwarted by the price war in Euro-

The price of PVC in Europe has fallen by almost 20 per cent from its April peak last year, to around DM 1.50 a kilo.

Enichem and ICI tried in January to push the price back up by 10-15 per cent, but appear to have succeeded only in halting the decline.
ICI, whose FVC capacity of
570,000 tonnes is around 11 per cent of the world total, said the attempt had been postponed because of competitive conditions.

There are slight signs of an up-turn in the UK, and the group still hopes to raise prices by 6-7 per cent in Britain and the Continent by the

Prices of commodity plastics have been falling in recent months. The failure to reverse the trend in PVC prices is, however, significant ket and are price leaders to an extent that is not found in more fragmented markets, such as polyethy-

PVC is not subject to the threat of low-cost Saudi Arabian competition nor can it immediately be used as a substitute for products that are un-

Industry analysts are divided as to why commodity plastics prices should have plunged so dramatically, particularly since demand has

ry, paracharty since demand has remained strong. Industry sales of PVC, for exam-ple, seem to have peaked at around \$20,000 tonnes in October – six months after the price began to

Some analysts believe that goodsales volume masks an underlying weakness in the stock chain, and in export markets.

The self-contained nature of the PVC market, though, argues more for a form of internecine war among European producers.

# Acorn to update computer

By Jason Criep

ACORN Computers is to launch a more powerful and more expensive version of the BBC Micro later this year. It may also drop the standard version of the cheaper Electron

computer which has had disappointing sales. Mr Chris Curry, founder and managing director, has confirmed for the first time that Acorn will produce a new version of the four-year-old BisC computer, which is wadely used in education and homes.

The new computer is not likely to appear until September. Mr Curry emphasised that Acorn was not

emphasised that Acora was not phasing out the existing version of the EEC computer and was not planning to ent its price of 2490.

The BBC Micro is gtill the main source of Acora's revenues, although the computer is increasingly seen as expensive and underpowered compared with other products. Last year Acora signed a four-year contract with the BBC which required is to produce a new gossputer.

from a sharp fall of confidence in the City of Loaden after its with-drawal from the U.S. market and poor sales of the Electron. Ten days ago Acorp cut £70 off the price of the Electron to £129,

Accor's main competitors claim that the Electron is being sold at a loss, and there is growing evidence the company may stop selling it as a basic home computer.

# Cuts sought in drug industry's profitability

By Qurte Repoport

BRITAIN'S largest drug companies will be hardest hit by the Govern-ment's plans to reduce the industry's profitability, according to in-

The reduced targets for profits hility were sent to drug companies by the Department of Health and Social Services (DHSS) last week. The targets, according to Mr Peter Cunliffe, managing director of KI. Pharmaccuticals, "are about as bad as one's worst fears."
It is understood that the DHSS is

eeking to reduce the companies return on capital employed to be-tween 15 and 17 per cent, in line with other government contracts. The Government proposes to schieve the reduction in profits through a 3 to 4 per cent price cut on drug sales to the National Health Service and restrictions on

promotional expenditure.

As the large UK-based drug companies are at present the most profitable within the industry, they face the largest profit reductions. These companies include Glazo, Fisque, Beccham, Bogts and ICI Pharmaceuticals, Due to the strong sales of its heart drugs, ICI Pharmaceuticals is now among the top 16 most profitable drug companies in the

world.
Mr Rom Habrierd, chairman of Beecham, said the industry would not give up lightly

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tormer board for February 14, 1885,
to be held in St Heller, Jersey (see
Fireancis Times, January 15, 1885,
page 24) has been cancelled by
delision of the board dated Jesuary
30, 1995, The meeting is no longer
necessary, pince the husters

### UK TRADE FAIRS AND EXHIBITIONS February 19-21 Refrigeration and Air Codding ing (01-688 7788)

Current
International Spring Fair: Gift
Show (01-855 9201); Hardware
and Housewives Show (0604
22023) (until February 7)
NEC, Birmingham
February 8-10 Z2923) (until February 7)
NEC, Birmingham
February 8-10
Cruft's Dog Show (01493 7838)
Earls Court
February 10-13
International Food and Food and February 10-13
International Food and February 10-13
International Food and February 10-13

Intarnational Powder and But Solids Exhibition—(POWIFCE) February 10-13 International Men's and Boy's Wear Exhibition (021-705 6707) Olympia

February 12-14 Brighton International Catering Exhibition — CATERBRIGHT (01,222 9341) Met Exhibition Hall

February 17-19
International Trade Show for
Home Computers, Software and
Leisure Electronics—LET (6923

### OVERSEAS TRADE FAIRS

Fobruary 4-7
Middlo Rast Electronic Communications Show and Conference—MECOM (01-486 1951)
Bahrain

February 7-17
International Motor Show (Passenger cars)—PERSONENAUTO
(020 44 09 44) Amsterdam
February 8-17
International Boat Show (01-486
1951) Helsinki

February 9-13
International Exhibition of Women's Ready-Made Clothing—
Pret-a-Porter (01-439 3964)
Paris

February 20-24 International Holiday Fair and Exhibition — FERTENMESSE INTERNATIONAL (01-981 2696) Vienna

February 23-27 International Spring Fair (01-78) Frankfurt March 5-9 March 7-17 International Motor Show

March 5-31 Daily Mail Iideal Home Erons tion (01-222 9341)

March 6-8
Digital Equipment Hardway
and Software Exhibition DEXPO EUROPE (0)-882 2256

NEC. Birmingham

(01-572 2121)

March 12-14 Semicon Europa Electronic Show (01-353 8807) Zurich

March 19-22 Interoational Printing and Pack-aging Machinery and Materials Exhibition — PRINTING AND PACKAGING INDONESIA (U)-486 1951) Jakaria March 22-27 Interpational Travel Exhibition (021 705 6707) Budges

Ovez IRC: Third and fourth generation PARKs - preparing for the next five years (01-286 6080) Hitton Hetel, W1

February 23.54 Institute of Refailing: How to start your own retailing husiness (Exmouth 266369) Exeter Arms Hetel, Exeter

February 28
James Morrell Associates: Business forecasts fax reform and unemployment (01.396 6940).

Bawater Conference Captri

langman Seminars: The protec-

(01.842 2548) Cayandish Conference Centre

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### BUSINESS CONFERENCES

Risk Research Group: Reinsurance practice (01-236 2175)

Kensington Palace Hotel, W8
February 13

February 20

The Henley Centre for Forecasting: Consumor markets Changing the rules of the game (01-353 9961)

February 13
The Henley Centre for Forecasting: Foreign exchange rates—
FX Analyses, forecasts and world business prespects (61-Cumberland Hotel, WI

February 12
Brazilian Chamber of Commorce;
New oportunities for industry,
trade and natural resources (01499 0128) Hilton Hotel, WI February 26
London Chamber of Commerce
and Industry: Pelsium—its sales
potential for the EEC and its
investment incentives. (01-248
4444) Cannon Street, EC4

February 14-15
Risk Research Group: The
funire of Lloyd's (01-236 2175)
Great Eastern Hotel, EC2 Pebruary 18-15
Open Computer Security: The
International Data Security Conference 1986 (1972 672191)
Borchester Hotel, W1

February 20-21 FT Conference: The Third Anto-mated Manufacturing Conference (01-621 1989) Intercontinuousl Metel, Wil

February 21 WP. Text. Communications 1985 (01-242 4141) Landon Pebruary 25 Longman Seminars: Will drafting Longman Seminars: Oil add 25

law—the joint operating age ment (01-242 2548) February 20-21 FT Conference—The Third Anto-mated Manufacturing Conference

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(2) 1355). 3288) Inter-Continental Hotel, WI

Anyone wishing to attend any of the chang events in advised to telephane the organisers to ensure that there has been no change in the details published.

# Financial Times Conferences

### CABLE TELEVISION AND SATELLITE BROADCASTING

London - March 19 and 20, 1985

The opening address to the Figspeial Times 1985 meeting on Cable Television and Sycellife Broadcasting will be given by Mr Gilas Shaw, MP, Minister of State at the Home Office. Other speakers will include: Mr Eleo Brukman, Dutch Minister of Welfare, Health and Cultural Affairs. The Rt Hon The Lord Thomson of Monifieth, KT, PC, chairman, Independent Breadegating Authority, and M Stephane Hessel, Membre de la Haute Autorité de la Communication Audiovisuelle.

larges to be discussed during the two days include:

\* What kind of programmes are riewers prepared to pay for and what are the economics of making and distributing them?

What roles should governments play in fostering tho new media and what kind of regulatory framework is

Is there likely to be a mass market for interactive home information services and how fast will it

# PRIVATE HEALTH CARE

London - March 25 and 26, 1985

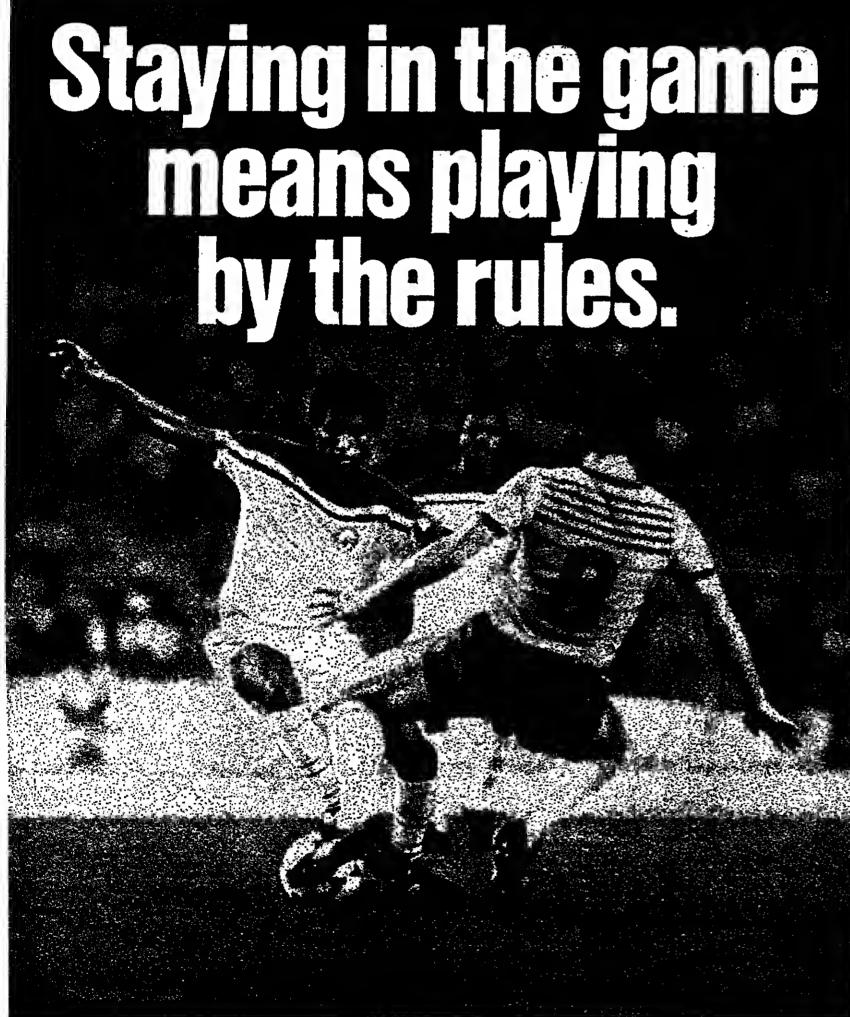
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In the 1984 Olympic Games, the Saudi soccer team emerged as a force to be reckoned with in the future. In much the same way, SABIC (Saudi Basic Industries Corporation) is emerging as a world-class supplier of petrochemicals, committed to the rules and conventions of international trade, now and in the future.

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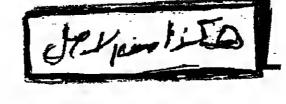
friendship, fairness and honor. A code that has long been a stabilizing influence on the world oil scene. SABIC will abide by this code in marketing world petrochemicals. We consider it to be not only a matter of national pride, but the basis for good business.

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We see our role, both now and in the long-term, as best summed up in a statement by the President of SABIC Marketing Company, Ltd., Abdullah S. Al-Nojaidi: "We will play by the rules?"



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# **UK NEWS**

# Westland Helicopters asks for state help

BY LYNTON MCLAIN

February 4 196;

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18-21

WESTLAND, Britain's only helicopter maker, has urged the Ministry of Defence (MoD) to consider a financial rescue to ease the company's forecast cash flow problems in

By then, the first of the Anglo-Italian EH101 helicopters are to go to the Royal Navy to replace West-land's Sea King and Sea Lynx on anti-submarine work.

The company has been having discussions with the Secretary of State (for Defence) about its current order book, and we are aware of the problems they face," the min-

The MoD is at the feasibility The MoD is also considering a study stage of plans for a possible light attack helicopter for the Brit-new battlefield helicopter. This is army, but again this is unlikely project, with the codenumber AST to be producing cash for Westland, 404, is unlikely to be given a formal if it gets the order, until the 1990s. go-ahead in time to ease Westland's Nevertheless, the MoD confirmed cash flow problems in the three that it had been looking at ways of years to 1990, when the company helping Westland. most needs support.

Westland has a healthy order book and was given £40m from the ments for the Ministry of Defence Department of Trade and Industry three years ago to develop the West and yesterday. "No decisions have land WG30 helicopter. This helicopter yet been reached by the minister. ter could be modified to meet We are not able therefore at this AST404, but this cannot happen un-til the final requirement for AST404 Westland or on the long-term cost-

ing assumption for the MoD.\*

# Companies said to lag behind overseas rivals on training

BY ALAN PIKE, INDUSTRIAL CORRESPONDENT

DISTURBING evidence that UK match this spending level. The sur- as the first of its kind. The findings companies spend only a fraction as much on training as their overseas competitors is given in a survey published by the Industrial Society

The survey shows that 65 per cent of organisations spend less than 0.5 per cent of annual turnover on training. Research indicates that leading companies in competitor countries like the U.S. and Japan spend 3 per cent or more of sales

The Manpower Services Commis-

Only two companies out of 134 included in the survey - an accountancy firm and a research organisa-- were found to be spending more than 3 per cent of turnover on training. Three others spent between 2 and 3 per cent - two accountancy firms and a new technology company in the distribution and shipping sector.

about levels of spending on indus- with turnovers of £51m-£109m. sion (MSC) is trying to persuade trial training in the UK, and the In-UK companies that they must dustrial Society regards its analysis Industrial Society, London.

vey illustrates the scale of the task before the MSC.

will strengthen the Government in its view that the UK does not suffer from a shortage of state spending on vocational education and training, but from underinvestment by industry.

Another striking feature of the survey is that spending on training apparently does not increase with the size of the company. The list of organisations spending less than 0.5 per cent of turnover included 26 and shipping sector.

Out of 32 companies with turnovers

There is a lack of information of £101m-£500m, and 17 out of 20

mitment to uneconomic closures.

# Coal board's enigma over talks

THE NATIONAL Coal Board (NCB) has been, since the beginning of this year, dogmatic that it must have an agreement with the National Union of Mineworkers (NUM) that uneconomic pits must close:

There has been confusion, however, over whether it insists on this agreement in advance of negotiations, or simply that such an agree-

confusion. Last November, he wrote in Mr Stan Orme, Labour's energy spokesman, to say that talks could not re-start without a written assurance from the NUM that its leaders ance from the NUM that its leaders

JOHN LLOYD discusses the conflicting messages about conditions for talks to settle the miners'

needed: a verbal indication would

els. First, if talks do start again, unis enigma will have to be cleared up. Second, the changes of line by government ministers and the board have been so marked as to prompt the question: is it deliberate?

Mr Ian MacGregor, the NCB some agreement on an agenda for talks. But then the NCB line hard-

NUM recognise that management

suffice.
Ministers picked that up, and

asked the union to show it was willing to address the question of dealing with uneconomic capacity" Yet on Friday, the NCB said: "The

board remain ready to resume negotiations when the union make it ment should be discussed during both Mr Pefer Walker, the Energy clear they are prepared to have the talks.

Secretary and Mr. David Hunt, the meaningful talks to accept the The issue is important on two levels. First, if talks do start again, this MacGregor's point procedure to deal with the problem of uneconomic coal mining capaci-

A likely explanation for the con-fusion is that the board deliberately wishes to put out two messages. Firstly, to the Government (especially the Prime Minister) and to the public, it wishes to maintain a

cates it will talk about uneconomic

# Union to ballot on political fund levy

APEX, the clerical union, is to ballot its 100,000 members on whether or not they wish to retain the union's political fund.

The ballot will be held in the six weeks from May 20 to July 1. The fund is raised by a levy on members and is paid in support of

the Labour Party.

Apex is the first union to an nounce its intention to ballot - although it is understood that two large unions, the General Municipal and Boilermakers Union and the electricians' union Eetpu, will also ballot at about that time and that the Post Office Engineering Union will ballot a little before.

Apex has been strongly opposed to the Trade Union Act 1984 which requires ballots of union members in the election of union officers, be fore taking strike action and on po-litical funds. It will nevertheless present to its April conference rule changes which will bring its execu-tive electoral system into line with the legislation.

□ INVESTMENT of £1bn on Britain's infrastructure and cuts in national insurance contributions, both for both employers and employees, should take priority over cuts in personal taxation, according to the Association of British Chambers of Commerce in its pre-budget sub mission to the Chancellor of the Ex-

THE GOVERNMENT is hoping to keep pay rises for judges, senior civil servants, doctors, dentists and the armed forces down to 3 per cent

this year. With inflation at 4.6 per cent and predicted to edge up over the next year, this would be in line with the 1 per cent cut in real wages which Mr Nigel Lawson, Chancellor of the Exchequer, has advocated as e means of creating more jobs. But last Wednesday, Mr Merrik Spanton, a board member, sent e letter to the NUM leadership which

☐ FOOD RETAILERS are increasingly siting new superstores out of town in preference to town centres, according to a survey by the Institute of Grocery Distribution. It found that almost 60 per cent of superstores were built out of town in

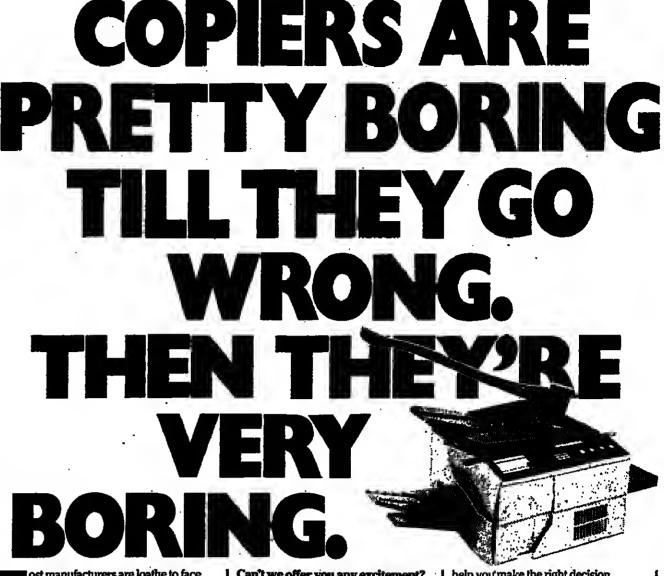
D BUILDING societies had a net inflow of funds of between £850m and £900m in January, according to preliminary figures. This would represent a drop of about £100m.on December, which was the second best month yet for funds.

I THE CONFEDERATION of Brit-

ish Industry has set up an information technology skills agency, headed by Sir Robert Clayton, a for-mer technical director of GEC. The aim is to combat skill shortages in information technology.

I THE INSTITUTE of Directors will today press the Government to would discuss uneconomic pits.

On January 20, however, he said no written assurances would be It seemed to mean a prior com-



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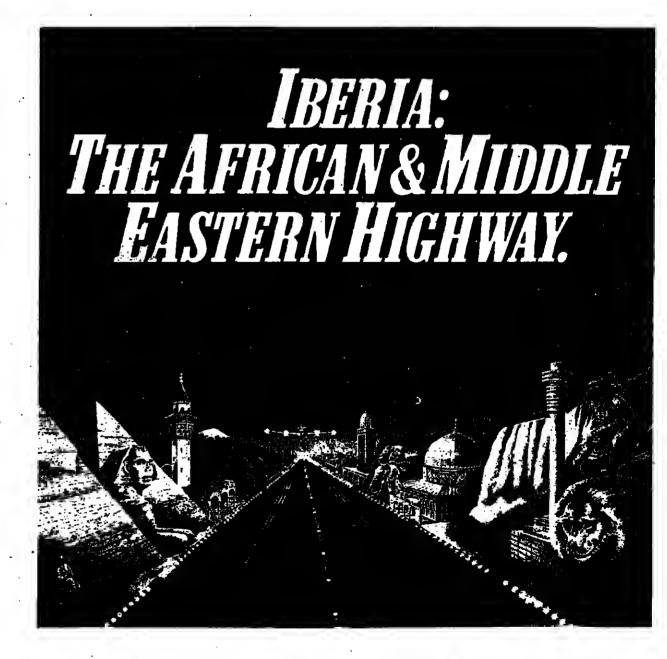
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# **UK NEWS**

# Help break CAP down, Government is urged

immediate steps to reduce its spending on farms and do everything it can to assist the eventual breakdown of the EEC's Common Agricultural Policy (CAP), according to a paper published today by a leading free market think tank.

The paper, written for the Insti-tute of Economic Affairs by Mr Richard Howarth, a lecturer in agriultural economics at the University College of North Wales, argues that the CAP is incapable of reform and that Britain should aim to re-

significant drain on the public purse consuming almost double the overseas aid budget, 57 per cent more than is speni on law and order, and one third of total expendi-

rade relations with the U.S.

The paper maintains, however, that farmers have not benefited much from this report: "A high pro-portion of the growth benefits they have received in price and input support has been dissipated in high land values, rents and interest payments which have in turn provided

Farmers have been worshipping at the altar of a false god who has showered his bounty on them in an

The study stopped short of de-manding unilateral British with-drawal from the CAP, which, it ys, would cause the breakup of the Community. But it suggests that the policy might self-destruct if deprived of increased funds tocularly in view of the planned entry of Spain and Portugal into the EEC

"Britain missed an opportunity to bring the matter of the CAP to a head at (the EEC summit last year mity remains in a state of flux. The opportunity to end the

CAP or to escape from it may come to hand at any time. It is up to the

ommunity survives."

Once disentangled from the CAP Britain could then aim to phase out

mum of 10 Tory seats in the Commons in danger from the farming vote and a Prime Minister commit-

would be strong opposition to such a move from within the Cabinet, 10

In the short term, the Governnent could also cut farm spending over which it has direct control.

WHITE GOODS INDUSTRY 'FAILED TO EXPLOIT POUND'S DECLINE'

# Domestic appliance exports fall

BRITAINS £2bn-a-year white goods industry has failed to capi-talise on sterling's market decline,

Manufacturers of Domestic Electri-cal Appliances (Amdea), exports of white goods from Britain declined

that 1984 was a bad year for exports from the industry," Amdea said in its 1984 annual report.
The association gave two reasons

for the failure to boost exports. First, some traditional UK markets, particularly Middle Eastern coun-tries, have been lost to competitors from the Far East. Second, the reduction in the exchange rate against the dollar, which caused a mber of U.S. companies to abandon the UK market, has not led to any real attempt by UK manufac-

white ures on the decline last year but ing to Amdea, Spanish electrical ap-to capi-said that export performance was pliance imports increased by 54 per decline, down on 1983, not only in unit cent in the first half of 1984, comsaid that export performance was down on 1983, not only in unit terms but in value. Between 1978 and 1982, the industry's exports dropped from 22 per cent to 14 per cent of total sales.

Growth in sales of white goods overall last year slowed to about 4 per cent, compared with a 20 per cent increase in 1983. Amdea termed last year's increase as "satisfactory" and predicted a similar growth for 1985.

The industry has also managed to hold imports fairly stable in most categories of white goods. In the fridge-freezer market, British com-panies have improved their share from 57 per cent of the market in 1981 to 71 per cent last year.

Imports of small appliances from Spain, however, increased sharply, causing the industry to step up its representations to UK and EEC officials on trade conditions between

pared with the same period in 1983. The total value of imports, ac-

ording to Amdea, rose sub ly last year as a result of the "phenomenal growth in the sales of microwave evens, which has been dominated by Japanese manufacturers. This import penetration. however, is expected to fall follow-ing the decisions by some Japanese

Amdea also noted that these new microwave production facilities will boost the industry's exports, partieyears, Amdea expects that around half of the sales of microwaye ovens in the British market will be homeproduced, although largely by Japa-

# **Production** of tyres 'still too high'

DESPITE RECENT curbacks, UK ity into line with expected demand Mr Chris Dickson, marketing man ager of Uniroyal, said at the week-

official exports of tyres by UK deal ers in 1965 and give manu would only mask the underlyin problem for the industry: that su

by about 2m a year since the end of the 1970s, Mr Dickson said, British urers could still produce 3m more car tyres and about im

British factories have sales of bout 22m car tyres a year ag with capacity of about 4m.

ports by dealers from the UK of replacement car tyres will jump from 595,000 last year to about 2m in 1985. Unofficial exports of truck tyres are forecast to incre 58,000 to 220,000.

Mr Dickson said that the British dealers had recently begun to ex-port to the U.S., encouraged by the strong dollar, whereas in the past they had concentrated almost en

He suggested that the underlying position of the UK tyre industry would generally deteriorate this riginal equipment was like further eroded: Uniroyal forecasts that demand in 1985 will be 5.13m yres against 5.2m last year, even though UK car production is expe ed to rise from 920,000 to 940,000.

Demand for replacement car tyres this year is forecast to im-prove from 15.2m to 16.5m, of which about 11.5m will be provided by UK factories (9.86m last year).

Mr Dickson pointed out that the

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Make sure you've got

someone to fuss over you.

(Only an airline with one

every ten passengers

cabin attendant for

headset and a pair of comfort socks.

got that.)

got an airline whose route network can

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And make sure you've

across four continents.

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business, make sure you've

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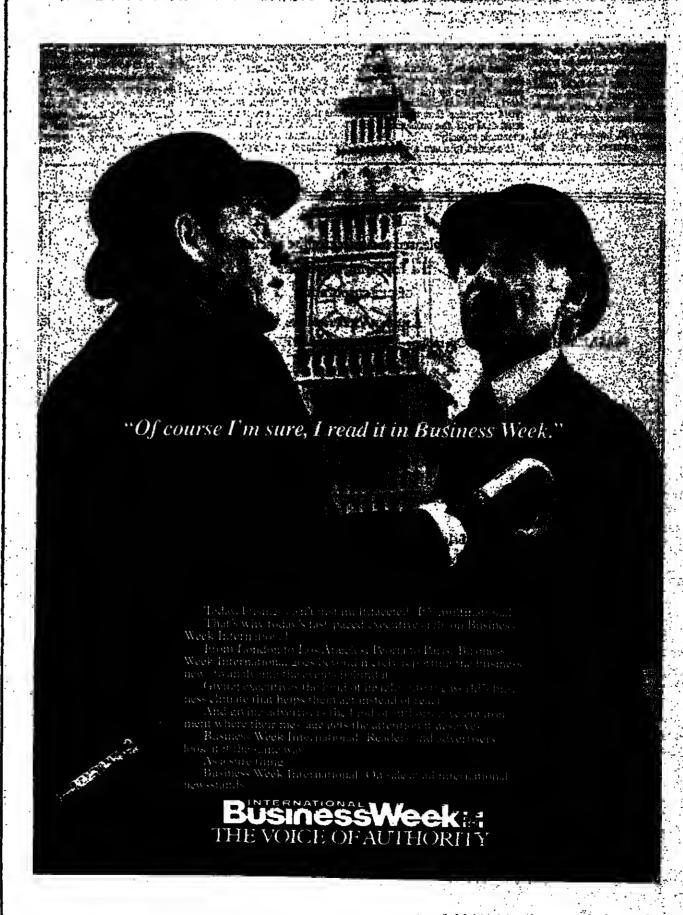
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# tyres

February 4 lb

mental Gooding, May Correspondent

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Talbot warns unions

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e months	8.56%	9.45%
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3 years	9.16%	10.11%
5 years	9.46%	10.44%
7 years	9.66%	10.66%

These were the prevailing rates paid on deposits made during the week ended Monday, Fet. 4th. The rate is gusranteed for the entire term you sign up for. Rates on offer change weekly in accordance with the rise or fall in the 13-week U.S. Treasury Bill rata Being fixed-term deposits, should an early withdrawal be necessary, a substantial interest penalty would apply. "For 3-month and 6-month CDs, re-investment of interest is assumed to have been made at the same rates for additional 3-month and 6-month periods.

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THE CHANCELLOR of the Exchequer's review of UK hank supervision, launched in the wake of the ers who appoint him.

This is not the practice in many visors and auditors are quite close. Given that UK bank supervision relies heavily on trust and judgment, there may be a case for auditors to act more as the eyes and ears of the Bank of England, horrific though that may seem to many bankers

Last September, several senior officials from the Bank attended a conference of international bank supervisors in Rome, where this question was discussed at length.

National practices vary widely, from the U.S., where official bank examiners comb through bank where the Banking Commission ap points (and pays for) the auditors of banks in its charge.

The Swiss have a special licensing system for bank auditors which moses certain statutory duties on them, such as reporting violations (and banks' true profits) to the Federal Banking Commission. West Germany has a similar system.

All these practices are so bound

David Lascelles on an issue raised by the JMB affair

Role of bank auditors questioned

As far as the advantages to bank vices of auditors are concerned, greater insight into the operations of a bank must be high on the list.
Auditors are usually much more
familiar with the operations – and management - of a bank than supervisors can be. Provided they are

doing their job properly, they should be able to form a reasonably accurate judgment of the quality of a bank and the people who run it, and spot trouble early. A clear-cut system which obliges

auditors to report to bank supervisors also relieves them of the dilemma of how to deal with an unresponsive board when trouble looms. The most UK auditors can do is qualify their clients' accounts or resign, which may be dramatic but not helpful. Toucha Ross in Hong Kong also learnt thet it can be suicidal when it qualified the accounts of Bank Bumiputra's local subsid-

iary - and was fired.
On the other han the other band, auditors in this situation become the servants

Some of these dangers can be avoided by mandatorily rotating au-ditors to prevent them developing strong loyalties, or appointing two auditors so that there is always a

have banks disclose more to the public in their annual and interim accounts. This is less a matter for the Bank of England (which is only concerned about the amount of information it receives) than for the London Stock Exchange or the Department of Trade and Industry. At the moment there does not seem to be much pressure for greater disclo-

Although the idea of accountants acting as agents for the Bank of England seems strange and runs counter to the principle that auditors communicate only with their clients, there is a current of support within the profession for a fresh look at the questions raised by of two masters, which creates di- JMB. As that crisis showed, the present system can make auditor look helpless, even foolish.

from the end of next week.

Political and financial problems

Talbot said output of the Peykan in Iran was running at consistently high levels of just under 2,000 a week. The problem was caused by

of possible lay-offs over Iran contract

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT

TALBOT UK, a subsidiary of Peugeot of France, has warned the trade unions that lay-offs may be

Such action would be necessary unless letters of credit were re- profit for the year as a whole ceived early in the week to pay for car kits exported to Iran. The Coventry factory produces kits, worth about £130m a year, which are assembled in Iran and sold as the

have in recent years caused disrup-tion to the deal, which is Britain's biggest motor industry export con-

the failure to receive letters of cred-

a £1.89m loss for the first half of 1984 against a £1.54m profit in the same period of 1983. Even though necessary among its 1,400 workers the Iran problem caused a six week at the Stoke engine plant. Coventry, lay-off of 750 workers at Stoke in lay-off of 750 workers at Stoke in the second half of 1964, Talbot is thought to have achieved a trading

Talbot is now investing £30m at its Ryton assembly plant, Coventry, to produce the C28, a family of cars which will go into production late this year. The company's manual workers

drew back from a threatened pay strike and accepted a two year deal in the face of management exhorta-tions to ensure a viable future for The first substantial order in the

UK for light vans powered entirely by diesel engines has been placed with Ford by the Post Office, John

It is taking delivery of 2,000 Es it. cort vans powered by the 1.6 litre
Similar delays in letters of credit diesel engine in which Ford has inlast year pushed the company into vested £160m at Dagenham, Essex.

# up with each country's banking tra-TV-am's happier second birthday

BY RAYMOND SNODDY

TV-AM, the commercial breakfast director, believes revenue will total company that came close to col- 122m in the year from February ond anniversary on the air with a

Matthey Bankers (JMB)

affair, has got under way with the message that speedy results would

One of the issues the three-man

committee headed by the Governor

of the Bank of England must inves-tigate is the role of bank auditors. Arthur Young McClelland Moores,

JMB's auditors, came under fire for

giving JMB a clean bill of health on-

ly three months before it nearly

Whether or not that criticism was

tion of how far the respon-

es of a bank's accountants ex-

fair (and Arthur Young rejects it strongly), it touches on the sensi-

If accountants uncover some

thing suspicious during their audit, they must obviously tell the bank's board. But should they tell the Bank of England, especially if the bank refuses to put it right?

Under the professional ethics that prevail in the UK, they would not be able to pass on their con-

nanage to hint that XYZ bank is

doubled from an average quarterhour peak of Lim to the present level of 2.3m. During the week's to-tal of 13m people watch TV-am at some time, compared with 7m a

Although the station will probably lose about £3m this year, Mr Bruce Gyngell, TV-am's managing

1985. This should provide the first small operating profit. But, as the audience builds week by week, TVgreatly increased audience and brighter financial prospects.

Over the past year ratings have audience builds week by week, TV-am still has to cope with an accomulated deficit of about £20m which will take years to pay off.

> The breakfast channel is now, however, sufficiently confident with encouragement from the Independent Broadcasting Authority o begin spending more money on

An executive editor for news and

tors have been appointed. This allows TV-am to run a 24-hours a day news operation. It is also, for the first time, thinking of opening New York office to improve its U.S.

The arrival of Mr Jonathan Dimbleby, the broadcaster, at TV-am will also add more current affairs weight. Apart from making the company commercially viable, Mr Gyngell has always said his main

# **Ouotron** to expand in Europe

QUOTRON, a U.S. electronic finan cial information service specialising in U.S. stock markets, plans a big expansion of its operations in

Quotron has been upgrading its computer facilities in the UK, the springboard for its European sales drive, and is bringing on stream the first of its regional computer cen-tres to be opened outside the U.S.

That is expected to lead to in creased competition in screen-delivered financial services in Europe. Reuters, the publicly listed UK information group, and Telekurs, a Swiss organisation owned by a group of Swiss banks, dominate that market in the field of

Quotron, a publicly listed U.S. group, operates outside the U.S. in tandem with Associated Press-Dow Jones (AP-DJ), the newsagency and publishing group. AP-DJ has a 51 per sent stake in non-U.S. operations with Quotron holding the rest. Quotron's new \$3m computer cen-

tre should allow it more than to treble the current number of 80 UK

subscribers and permit a further development on the Continent, Mr Eli Antar, AP-DJ marketing direc-It has only eight subscribers on the Continent but recently ex-

panded into France, Belgium, Luxembourg and the Netherlands and has plans to deliver its services to Scandinavia, Italy and possibly South Africa. Quotron claims to offer a faster

and more comprehensive coverage of U.S. stock markets than its main rival, Reuters. The latter said it was extending its coverage of U.S. stock markets, particularly of the options and futures markets.

# **Bank of Scotland** in Jersey

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# Refined thoughts for building construction

BY JOAN GRAY, CONSTRUCTION CORRESPONDENT

A BUILDING should be a re- variations." fined and industrialised product —like a car or a computer—according to Cambridge-based architect Mr Roger Perrin, who has launched his Tartan build-

The Tartan system uses a pressed steel frame—just like a racing car chassis "—on which enamelled metal wall panels enamelied metal wall panels can be hung with the same case as a car's hodywork; and once the building is completed and the steel chassis fixed, the wall panels can easily be moved or replaced to modify or extend the building to meet its occupiers' changing needs.

Building systems and prefabrication are not new technology. There are many in existence

There are many in existence with differing success and fieribility. Most are developed to be cheap construction methods.

The idea for the Tartan sys-tem started as a result of Mr Perrin's conviction that buildwhile other industries had changed, and that the whole process of putting a building together needed to be rethought. Not just restyled.

"Most buildings and the atti-tudes behind them are archaic" he says, "and traditional hulld-ing is totally dated both in the ing is totally dated notin in the materials used and the way they are put together. Just look at the wastage of of materials, labour and time on a traditional building site." He also wanted to eliminate tured to tolerate the frustration he felt working with conventional building techniques, "where if you're always the Tartan desi designing buildings as one offs using different engineers, con-tractors and quantity surveyors

He also wanted to create a system which would make life easier for the client buying the building.

the building.

"The problem of buying a new building is that it's not something people do every day, but a big investment and a high risk for the customer," he said. "But we offer a product based on a standard concept varied in detail according to his needs, which they can come in and see which they can come in and see in operation before committing

The key elements of the Tartan building. system are the frame, fastenings and cladding

Because the Tartan system is based on standard modules, Mr Perrin can offer his buildings at a "fixed price and in a fixed at a fixed price and in a fixed time because there is no need for contingencies, as we know the price of all the components and will quote a fixed price for the foundation works which we have done by sub-contractors."

The key elements of the Tartan building system are the frame, the fastenings and the cladding. Rather than using the more conventional hot rolled

more conventional hot rolled steel sections manufactured to tolerance of plus or minus 10 mm, the Tartan frame uses sed steel sections manufactured to tolerances of plus or

This accuracy is essential to the Tartan design, because the frames are drilled with holes for the fastening nodes and tractors and quantity surveyors the passage of services, pipes and for different clients you and cable, and once the basic can't achieve as much as fast frame is up everything else deas if you define a basic product pends on it, so there can be no and keep repeating it with scope for bodging, said Mr

The next key to the system pressed steel frame beams to-gether. They provide a universel connection for beams in all directions, and allow extra members to be fastered on to them if the building is to be ex-

"It's just like Lego," said Mr errin, "because just as you can use Lego bricks to create things that look very different of the property of the propert nodes and varying the style of

Once the framework is np. with the beams connected by fastening nodes into the required shape and size the walls are added by hooking on lightweight enamelled metal cladding panels.

"They are designed to be

cladding panels.

"They are designed to be fastened on straight from the delivery lorry to the building, first with a special hook-on fastening and then with final fastenings from the inside," said Mr Perrin. "This means the walls can be completed from the shelling and also inside," and also inside, and also inside, and also inside, and also inside, and also inside of the building and also inside. inside of the building and also

building industry types but not and bolts workers from high-technology office and factory under construction, planning to start hype of ing industry; the enamelled steel well cladding panels are used to enamelling side panels are made by a specialist con
huilding industry types but not and bolts workers from high-technology office and factory under construction, planning to square feet and 15,000 square feet, says Mr Perrin.

Tartan so far boasts one factory under construction, planning consent for a three-story under construction, planning to start hy on building his own new houses at contract to design a heard-story under construction.

Although it is possible to use

Mr Roger Perrin, left, inspecting his Tartan building system

tractor more used to manufac-turing yacht equipment; and the men who erect the buildings on site are "not traditional huilding industry types but into and bolts workers from

the system for buildings from the roof made of a single panel houses to three-storey office blocks Tertan's main market He is also hoping that he will be able to persuade one of

the executives occupying a Tartan factory to "spend £200,000 on a Tartan house which will be featured in a glossy magazine and start a

Meanwhile, he is exploring the possibility of marketing one-forty-second scale Tartan systems as toy hullding hits so that "children of seven years their own miniature Tartan houses, shops, offices, and fac-tories.".

Waste

# **Treating** textile effluent

DRAMATIC REDUCTIONS in trade effluent charges are promised from a system being developed by Wira, the Leeds-based Wood Industry Research Association. A bonus is that it produces useful by-produ The process is claimed to reduce the pollution load of any ndustrial effluent and provide savings of up to 90 per cent of the charges made by water

The system consists of an en-closed, pressurised, anaerobic digester in which anaerobes putrify the effluent, reducing complex compounds to simpler ones. After the effluent has resided in the digester for up to 20 days, its toxicity e greatly reduced, allowing it to be drawn off into settling tanks.

After settling, the treafed effluent can tilen be discharged to the sewers in the normal way and the bio-mass sludge residue used on the land as a fertiliser.

further by-product, methane, is produced in quantities that enable it to be economically harnessed for space heating or electricity

The system is the result of a 21-year project funded by the Textile and Other Manufacture Requirement Board, the Confederation of British Wool Textiles and the EEC.

Wira has undertaken a wira nas undertaken a number of previous projects in effinent treatment. One, for Allied Industrial Services, treating 340,000 gallons of industrial effinent a day, paid for itself in two years by producing by-products worth £120,000 a year.



Safety

# Fire protection

PUTTIES, SEALANTS and coatings that retard the spread of fire in electrical installations are offered by D. P. Sanders (Industrial) of London (61-437 1876).

The materials, made by Dunichi Nippon Cables (part of Minubishi) in Japan, do not need to be applied by experts but can be dealth experts but can be dealth with by the user when needed, on site. They also have a long shelf life.

Denis Sanders, chakman of the London company, believes there are substantial savings to be made by considering the passive aspects of fire prevention at the design stage. Too often he says, people design the installation and consider the fire risk and its effects when the project is complete.

is complete.

The materials contain a halogenfree fisme retardant, oily binder, morganic extender and inorganic fibre. They swell up when heated.
A typical application is in filling in botes and clearances where cables penetrate

amces where cables penetrate walls and floors, to prevent fame propagation through the hole. The material DF Putty A for example, expands several tens of times at 300 deg C, filling up space created by burat cable insulation and protecting the non-fire side.

Tests at the Fire Insurers Research and Testing Ownert sation at Boreham Wood show that the materials withstand the requirements of British Standard 476 part 8.

COMPUTER PRODUCTS

# Laser printing

BY GEOFFREY CHARLISH

TWO NOVEL products have come out of Apple Computer (UK) in the last few days—a laser printer that virtually things typesetting to the Macintosh personal computer (PC) user, and an Ethernet-based networking system for the computer scalled AppleTalk.

The printer, called Laser Writer, is based on a 300-dots personal computer from Apple and some software called Post-cript. It can be shared by up to 31, Macintosh users over the AppleTalk network and will be available in the UK in March. The US, price is \$6.995 but the UK price is yet to be set.

The printer, selected from the typeface Libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Corporation, and the Mergenthaler, Linotype, Stempel. Haas typeface libraries of International Typeface Libraries of International Typeface Libraries of International Typefac

UK price is yet to be set.

Business software available for the Macintosh computer will produce output from the Laser-

accommodates many sizes of paper, transparency material, envelopes and labels commonly used in offices. It can print at up to

According to Mr Bob Klasach, UK marketing manager, people in offices "spend most of their time working closely with about five to 25 other people doing related or common work." He these offices have been com-plicated to install, hard to use and expensive, "all of which has limited the number of PCs

currently on networks to about panies already heve products under development for Apple-Talk. They include hardware to gateways to IBM networks, a Unix file server and hard disk servers. Apple has published Times, Courier and a maths set, the protocols for AppleTalk, Point sizes ranga from three to the architecture is layered and 72.

Apple plans to release further the UK on 0442 60244. Software ·

# Instrument controller

AMPLICON ELECTRONICS of Brighton has developed a plug-in circuit board and me software that turns the IBM XX personal computer into a controller for laboratory or industrial instruments connected on an DEKE 488 bus (network).

The company estimates that there are now some 180 instrument companies producing ever 2,000 IEEE 488 use in-a wide range of applications in engineering

ter and record data from the tured and written by National Instrument of Austin, Texas.

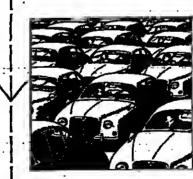
By using further seftware written by Laboratory Technelogies Corporation, also of the U.S., the computer can be interfaced additionally to Letus 1-2-3, Symphony and to allow the measured data



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"OKAY, we are a little blt bruised but we are used to the infighting in this industry. There's a profit plateau at the moment and we have to break out of it but I'm pretty certain

Tom Clarke offers no time-table for the "break out," wise perhaps given the clutch of factors which have had the Stlentnight Group's long record

factors which have bad the Silentnight Group's long record of rapactous growth stumbling over the past 18 months.

Chairman of a company with a £75m turnover which vies with Christie-Tyler as the biggest manufacturer in Britain's furniture and bed-making industry, Clarke warned in the big profit year of 1982 that dark clouds were looming on the horizon (see Management Page, September 3 1982). The clouds proved to be blacker than the weather forecast predicted.

Silentnight will announce this summer yearly profits under a half of last year's £52m. Volume sales of its three-piece suites bave slumped by a fifth in the past 2½ years. Buoyant, the group's main upholstery company, dropped a bombshell on its workforce last autumn when it told shop stewards that the wage bill would have to be slashed by 17.5 per cent and if negotiations failed the plant would shut.

The group's higgest company, the Silentnight bed-making operation at Barnoldswick, Lancashire, suffered a year ago its first strike in 40 years, a dam-

cashire, suffered a year ago its first strike in 40 years, a damaging event Clarke describes as "almost a culture shock." On top of that Silentnight's carnivorous reputation, earned

by gobbling up more than 20 companies since it was formed 40 years ago, took a knock when its attempt to purchase Slumberland from Duport

Everything, of course, is relative. Silentnight's performance is still envied by many in an industry littered with bankruptcies and plant closures. The group's profits are still ingher than those of Christie-Tyler, which has only recently moved into the black. It has also managed to keep its headcount pretty much intact, though the workforce has been cut over the past 2½ years by almost 500 to 2.700.

Also every week it makes about 20,000 beds, the mainstay of the group's business and a number which is up by between a fifth and a quarter since the middle of 1982.



The miners' dispute has also

had an unquantifiable impact in the strike areas. "We know of

one retailer in Barnsley where

the only people who came through the door for one week were his own staff," says Clarke.

With a half of the sale price of beds consumed by raw material costs, exchange rate

movements have disturbed all major furniture manufacturers,

# How Silentnight woke up to recession

Nick Garnett revisits a once-booming UK furniture maker

North Yorkshire after the last world war, is having to mode-rats predictions made two years ago that Slientnight will become by far the most dominant com-pany in the industry. "Achiev-ing that is going to take a bit longer than I thought," be says.

Harris Queensway and MFI bave been just the two most dominant elements in e gradual concentration of retail outlets longer than I thought," be says.

The group warned in the middle of 1982 that cost increases and growing industrial overcapacity would push down profit margins but the squeeze has been rougher than Clarke expected.

One principal factor has been the dramatic growth of MFI and Harris Queensway as furniture and bed retailers and which now account for perhaps

which now account for perhaps 15 per cent or more of national sales for some items. This has opened up a new era

about 20,000 beds, the mainstay of the group's business and a number which is up by between a fifth and a quarter since the middle of 1982.

Some of Silentnight's difficulties too have arisen out of its attempts to keep the ship on a perification has fixed new levels of the silent to the silent

(though not to MFI) and some in the industry believe Silentnight did not see the growth of these two early enough. Harris Queensway and MFI bave been just the two most dominant elements in e gradual

This factor bas exacerbated existing pressures of over-capacity. Clarke is not enam-

capacity. Clarke is not enamoured of employment support policies which thrust pound notes into the hands of small businesses operating in an already overcrowded industry. "We have one competitor who would be bankrupt without the aid be'e been getting. Soms companies are selling at unrealistic prices, selling e balf crown for two bob, because that is the only way they can keep in particularly for dollar-based products such as the chemicals that go into imported Draylon and the coir fibre used in upholstery. Silentnight costs the negative effect of this et tens of thousands of pounds. is the only way they can keep in business."

The group's upholsiery com-panies—making three piece suites—have chalked up a par-ticularly disappointing perform-ance. This side of the industry course. Its investment programme is still relatively large and, in some areas, has accelerated.

Nevertheless, Clarke, who started the business with his started the business with his sells to Harris Queensway

started the business with his sells to Harris Queensway

specification nas fixed new devets ance. Inits side of the indistry has been diperfully susceptible to new small company formations, usually as offshoots of per cent over three years. "It's bigger companies, because updragged down the entire market. The Silentnight group expenditure than bed production. gramme of about 24m a year has remained relatively static over the past three years. It is still one of, if not the, biggest in the industry, but the balance of expenditure over the past 12 months has been altered with the prospects of a longer pay

The group has also stuck to a policy of protecting profits rather than "buying" market share which partly accounts for the steep drop in its three-piece suite sales. Silentnight bas been further

The group's investment pre-gramme of about £4m a year has

Silentnight has been further bedevilled by some unsettling forced management changes. The group secretary and financial director have both died. Bill McEwan, the company's chief executive, left in November after just 12 months to go back into textiles, which Clarke views as a serious loss though he argues that the group's strength in middle managers in their 40s will ensure good management continuity.

continuity.

But the Silentnight Group is not one to sit back and twiddls its thumbs. It has been reviewing efficiency and costs reviewing efficiency and costs throughout its business—resulting in the post-strike deal at Barnoldswick and cost curbs et Buoyant where management secured a 16 per cent reduction in piecework rates, a practice elso carried out by other manufacturers, Christie-Tyler among them. Some of the smaller facturers, Christie-Tyler among them. Some of the smaller Silentnight Group companies have also been subjected to pay freezes. A reorganised sales structure has brought the seller closer to the customer. More effort is being exerted in distribution; delivery route planning has been computerised and £1.4m spent last year on vehicles.

of thousands of pounds.

Some of the pressures on Silentnight have been exerted internally. Five bundred workers walked out for two weeks early last year in a dispute over management's ettempt to tighten the system of payments by results.

Silentnight company's shopfloor labour force is expected to work very hard but Clarke says measurable efficiency had slipped by 25 per cent over the previous two years because of duction furniture maker Foster, Binder—and a Scottish timber mill sold. It has also disposed of a leasing company, Colne Valley, raising £2.75m in cash.

The group is making a great deal of its marketing and advertising campaigns and of Super Sleeper which, with continuous coll springs, is fondly described by the company as "the most advanced sleep system in the world" but which forms only 2.3 per cent of Silentnight's output.

"I'm pretty confident for slipped by 25 per cent over the previous two years because of bad management; this was an ettempt to regain the initiative.

The strike came at a very bad rorms only 2.3 per cent of Silentnight's output.

"I'm pretty confident for 1985. There's nothing really wrong with the company," says Clarke.

time, disrupting production of the new range, which is updated every 12 months and which retailers are hungry to get in their showrooms quickly. Data protection

# Why action is needed now

Richard Evans explains where responsibilities lie

nificant clauses begin to bite. all organisations in the UK which process personal information on computers, including government departments and local authorities, as well as industrial. commercial and financial organisations, should start considering the wideranging implications immediately.

The legislation creates the first general statutory right of access by individuals to computer records containing information on themselves. It also imposes a duty on all who store information in computers to stick to certain principles on its accuracy, security and purpose, and to disclose the names of those to whom the information will be available.

The legislation was produced largely to meet fears that detailed personal profiles on in-

The managing directors of two of the group companies is also vital to trade and inbave been changed, two plants closed—upholsterers Atkin and Ansell in Sheffield and reproduction furniture maker Foster, Binder— and a Scottish timber mill sold. It has also disposed could resist the flow of information across the IME's horders. mation ecross the UK's borders
—an ection that could prove
painful to industry, commerce

and the City.

The first provisions, on security, came into force last September and since then an individual has been entitled to putch caused by the loss, unauthorised destruction or disclosure of the counting purposes that will be destruction or disclosure of the counting purposes that will be destruction or disclosure of the counting purposes that will be destruction or disclosure of the counting purposes that will be destruction or disclosure of the counting purposes that will be destruction or disclosure of the city. personal data.

The remaining stages of the

timetable will be up to the In essence the registrar, cer-central figure in the legislation, tain to be known as the com-Eric Howe, appointed in puter ombudsman, is charged

Stages.

Although there still appears to be time before the most significant clauses begin to bite, all organisations in the UK payroll, customer records, sales, which process personal information on computers, including government departments.

The legislation was produced largely to meet fears that detailed personal profiles on individuals could be assembled without any check on the accuracy of the information collected or the use to which it would be put, or without the individual concerned being aware that e file existed.

But although it is primarily an attempt to meet the potential threat from computers to individual freedom, the law is also vital to trade and industry as it will enable the United Kingdom to ratify the Council of Europe Convention on Deta Protection. Without ratification other countries

Anyone will then be eble to apply to their company or any other organisation and on pay-ment of a fee see a copy "in ment of a fee see a copy "in intelligible form" of any infor-

poses, data held for payroll or accounting purposes that will be used for no other purpose, or data relating to national security.

Has your company already appointed a senior executive with a detailed knowledge of its computer systems and all aspects of personal information stored? Such expertise will soon be needed to cope with the effects of the Data Protection Act which, after a bumpy ride through Parliament last year, is now being implemented in Stages.

Although there still appears

September as Data Protection with the duty of promoting the observance of eight data protection to ensure that personal data is completed his preparations, the Home Secretary will name a beld only for specific pusposes; is not used or disclosed in a fare which all data users will have six months to apply to register.

The public register, to be than a protection to the subject; and that appropriate that appropriate that appropriate the data protection to the subject; and that appropriate that appropriate the data protection to the subject; and that appropriate the data protection to the subject; and that appropriate the data protection to the subject; and the data protection to principles. These seek to observance of eight data protection to principles. These seek to observance of eight data protection to principles. These seek to observance of eight data protection posservance of eight data protection principles. These seek to observance of eight data protection posservance of eight data pr ensure that personal data is obtained and processed fairly-beld only for specific purposes; is not used or disclosed in a manner inconsistent with these purposes; is accurate and up to date; is not retained longer than necessary; is available for inspection to the subject; and that appropriate security measures are taken against its unauthorised access, disclosure or destruction.

The first general guidelines on the legislation are being drafted by Howe's office and will be

by Howe's office and will be published towards the end of the month.

Both the Home Office and the

Both the Home Office and the Confederation of British Industry, anticipating a late rush of interest and concern as registration approaches, have published layman's guides. Both agree that the first necessity must be to establish exactly what personal data is held throughout an organisation, since in time all the purposes will have to be filled with the registrar.

The strong advice is for all large organisations to appoint one department or individual to co-ordinate this operation. Users should also look ahead to the time they are registered so that when fresh data is acquired for different purposes, their registerent purposes, their register strong will also need to examine existing computer systems to ensure they comply with statutory requirements on access. For example, it will be necessary to extract information within 40 days of a request and in a form that can be easily understood.

A particularly important con-

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A particularly important consideration for large-scale processors who bold data for several purposes will be whether to opt for a single all-embracing registration or to choose multiple smaller registrations. The Act provides that where a data user has separate entries in the register for data beld for

in the register for data beld for different purposes, the data subject must make a separate request and pay a separate fee for access to each category. There is a practical reason for this as it would be unreasonable if a simple request for information were to oblige a large organisation to search its entire computerised records just to estabputerised records just to estab-lish whether it held any per-

# Public Notices

NOTICE PUBLISHED BY THE SECRETARY OF STATE

UNDER SECTIONS 8 (S) AND 10 (6) OF THE

TELECOMMUNICATIONS ACT 1984

PROPOSED LICENCES TO RUN TELECOMMUNICATION SYSTEMS TO BE

GRANTED TO RACAL YODAFONE LIMITED AND TO TELECOM SECURICOR

CELLULAR RADIO LIMITED UNDER SECTION 7 OF THE TELECOMMUNICATIONS ACT 1984

TELECOMMUNICATIONS ACT 1984

1. (n pursuance of section 8(5) of the Telecommunications Act 1984 ("the Act "), the Secretary of State hereby gives notice—
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in Scotch.

PHER LOREN

# Changing the Exchange

Plans are efoot drastically one of the best known landmarks in the City. Guardian Royal Exchange are applying for Scheduled Monument Consent to raise the present roof structure of the present roof structure of the Royal Exchange by two storeys, elevating the central dome and adding two small domes to the arched chimneys. These proposals intended to make the Royal Exchange a more effective headquarters for Guardian Royal Exchange Insurance have

tive headquarters for Guardian Royal Exchange Insurance, have been drawn up by the architects Fittroy Robinson. Parinership and are rather amazing.

The Royal Exchange is a Grade I listed building and an important part of the very centre of the City's fownscape. The conservation pressure group SAVE Bratain's Hentage have expressed strong objections.

The feel the architects are "monkeying about" with the Royal Exchange to load offices on to it. The proposals are seen by SAVE as a "radical alteration that will destroy the present character of the building." It is nother like adding a couple of storeys on to St.

The Exchange has not had a happy architectural history. When the old one, which was when the old one, which was designed by Edward Januan City Surveyor in 1669, hurned down in 1838 the City authorities held an ill-fated competition to replace it. This was one of the most disgracefully managed of all 19th-century competitions, particularly lamentable because it deprived the City of one of the greatest the City of one of the greatest early 19th the century classical designs by C. R. Cockerell. designs by C. R. Cockerell.

Rays over estimates and costs
led to two competitions being
held—in the second one C. R.
Cockerell and William Tite were
the only competitors. Cockerell
produced a magnificent model of
his scheme. Tite, however, did
not make a model and he
persuaded the committee not
to look at Cockerell's as he felt
it was unfair to seduce the



The Royal Exchange under threat of a compromise to

its civic grandeur the remark he made to the Prince of Wales: "I have Rows over estimates and costs led to two competitions being held—in the second one C. R. Cockerell and William The were the only competitors. Cockerell produced a magnificent model of his scheme. Tite, however, did not make a model and he persuaded the committee not to look at Cockerell's as he felt it was unfair to seduce the committee with such a glorious model of the scheme. Tite sounds a rather odious fellow with well-placed friends all over the City.

Indicated a fortune, I married a fortune."

Tite's design for the Prince could only reply "Licky man."

Tite's design for the Prince could only reply "Licky man."

Tite's design for the Prince could only reply "Licky man."

Tite's design for the Prince outletone."

Tite's design for inherited a fortune, I married

His greatest claim to fame is the Royal Exchange. It grows he remark he made to the in stature for several reasons. It is far more literate and advanturous than Sir Herbert Baker's neighbouring Bank of England. I have always thought that the massive portice, with its eight Corinthian columns is one of the grandest in London. It has a wonderful dark depth

The pediment is full of sculp-tures by Sir Richard Westma-cott — 17 limestone figures dominated by the central per-sonification of Commerce. In the light of the today's deplorable public sculpture this little lot begin to shine. The central court of the

Royal Exchange has never been satisfactorily used. It now houses the London Futures Exchange in rather unattractive temporary premises. Unlike the Manchester Royal Exchange no agreeable public usa has ever been found. The shops do need a bit of chearing up but they should not be amaesthetized so that they look like yet more Covent Garden boutiques.

The roofline of the Exchange is still good, tower and chim-neys full of English Baroque vigour just beginning to turn into full Victorian richness. To raise the roof of the court will only confuse the issue and wreck the scale from both inside

and out.

It is rather cuaning to appy for Scheduled Monument Consent because this could be granted (the Exchange being e Scheduled Ancient Monument as well as a Listed Building) without the necessity of a public inquiry. The architects have also had a series of consultations with that august body, the Royal Fine Art Commission.

And what are the outcome of And what are the outcome of these discussions?

Amazingly that group of architectural gentlemen and ladies have not leapt to the defence of the integrity of e scheduled monument but instead offered this barbaric scheme thei "general support." The Commissioners have offered a few suggestions to make the scheme more in the spirit of Tite, if these are incorporated the principle of adding extra floors to already complete classical compositions will from henceforth have the imprimatur of the Royal Fine Art Commisof the Royal Fine Art Commis-sion—an appalling precedent. I am sure that when the nohle Lord Montagu looks closely at this violation of one of the monuments for which he is now responsible, he will suggest that this banal and insensitive scheme be dropped forthwith. It needs to be com-pletely re-thought so that the

Royal Exchange can be sensi-tively repaired and restored and made economicaly effective in a lway which will not wreck it for future generations.

# Opera 80 in Ipswich

Max Loppert

In Algiers to places normally not reached by professionally mounted opera with a fully constituted orchestra. When late last year the company was tion to display it—and thererescued from the sentence of fore the work—in the most
death previously imposed on it
by the Arts Council, we all
rejoiced; after two Opera 80
rejoiced; after two Opera 80
revenings this last weekend at
the modernaken topsy-turyy: rejoiced; after two Opera 80 evenings this last weekend at the Ipswich Corn Exchange, my own feelings of goodwill towards the company were approached. somewhat muted.

THE ARTS

Opera 80, one assumes, continues to be that of giving many people in its endiences a faithful, intelligible, and intelli-gent first taste of opera. Tho decision to offer e pocket-handkerchief account of e grand opera like Ballo, that most hrilliant and exhilarating most hrilliant and exhilarating of all Verdian exercises in large-scale dramatic contrasts, immediately implies in itself some degree of misrepresentation (when the chorus is reduced to one voice per jett, and the last-scene elteration of stage and pit orchestras disappears hecause there is no

figured as he beats a hasty retreat from the provincial com-

munity he has, well, taken for

Of course, such trivial innova-

The underlying purpose of

Opera 80 is in the early part stage band, the losses are of a graffito-bedaubed back alley, with fiair, that Stepben Barlow of its Spring Tour, taking e qualities not at all extrinsic to for some reason that remained conducts it with facility, if double bill of Verdi's Masked e proper Ballo experience).

Ball and Rossini's Italian Girl

Even so, a touring production stuck in eye-masks, hideous in that Leonard Hancok's dated the stuck in eye-masks, hideous in that Leonard Hancok's dated the stuck in eye-masks, hideous in that Leonard Hancok's dated the stuck in eye-masks, hideous in the stuck in eye-masks. could be made to work if approached the correct way round: that is to say, first acquire a east of suitable quality, then devise a produc-

> the productioun idea, by Declan Donnellan (in Nick Ormerod's designs), came first, and then a cast, of notably unequal abilities, was applied to it. The result is not a total waste of time — Mr Donnellan, as that recent London season of his cheek By Jowi theatre company has shown, is a strikingly inventiva man of the stage. But as a first-time Ballo this amounts to a slight on Opera 20 andiances.

80 audiences.

Tho opera (here wa go again!) is updated to modern America; its leading character is a modern state governor. his aides wear the dress of administrative and naval official-dom. The fortune telier lives on the wrong side of town, the Amelia was an honourable surrounded by hippy devotees; miscast. I must record that the the "ornido campo" becomes show goes off, on its own terms,

themselves, whose actual effect translation comes over, is to limit the natural expressive. If this was a task misbeggoten potential of the whole cast. Verdi's travesty-soprano pageboy, perhaps the single most wonderful imaginativa act of panion Rossini opera. The

take in his stride; but what on earth could the newcomer make It was clearly a production Imposed upon, and thus not enlivened by the cast; for none looked really effective in it, and indeed only one member new indeed only one member—
Neville Williams, in a wellshaped account of Riccardo's
music — appeared to make any
contact with the work at all.
The haritone, Christopher
Thornton-Holmes, tho light soprano, Rosa Mannion, and the mezzo, Susan Bickley (not really dark enough in timbre), showed flashes of promise which in other circumstances one could guess better realised;

the opera, becomes a female Italian Girl (given in a feeble secretary (still called Oscar!). new translation by the conthis last was the hardest thing ductor, David Perry) may not to bear in a performance that be the most scintillating of his someona who knows and loves comedies, but the score is the work well could otherwise delicate, and deserves a production to match—unlike Ballo this is surely "real" Opera 80 territory. The modern-dress version devised by Robert Carsen worked insteed on the rigorous principle of lowestcommon - denominator farce, with a flow of modern-dress gags as fired and crude as it was ill controlled.

Apart from the attractive heroino, Janine Roebuck, tho young cast seems to have gone under ontirely—I say "seems," because Iadmit to fleeing at the interval. No doubt it's too tate to work improvements for the rest of the tour (12 towns still to be visited). Before the next one, though, there must be a long, hard, fresh think about the why and the how of Orers 80 Opera 80.

# The Government Inspector/Olivier

Michael Coveney

In a programme note, Adrian Mitchell invokes Meyerhold in respect of his new version of Gogol's great comedy. One rather wishes he had never heard of the fellow. He claims to have taken all sorts of minor thantle into Meyerhold have scripts, scrolls and bills. A beetle or binebottle is caught in the middle. This hackdrop rises to yield a clumsy trucking rises to yield a clumsy trucking system of Khlestakov's floating bovel and the Mayor's home. A portrait of the Czar dominates the stage which in turn is over-run by Old Mother Russia herself when the peasants and shop-keepers descend on Khlestakov to have taken all sorts of minor tiberties just as Meyerhold had in his 1926 production, and the National Theatre director Richard Eyre follows suit, adding extraneous linking passages in swirling snow, an apparition of Petersburg society and a troika ride episodo from Dead Souls in which the presumptuous clerk Khlestakov is transfigured as he beats a hasty to exact salvation. The visual representation of all this I find no more satisfactory than Mr Gunter's work on Guys and Dolls or Wild Honey. It is all so much lavishness with minimal taste.

Having pinched a bit of Meyerhold, Stanislavski is the next port of call as far as the clerk is concerned. That direc-tor, in Michael Chekhov's performance, offered "a complete nonentity, devoid of any gifts or talents whatsoever" (thus Nick Worrall in a recent study). Grotesquerie is wearing after a time, but surely Khlestakov must be really on the point of starvation, or his farcical in-genuity has no spring. Mr Mayall

cigars with a fart for an ex-halation or—and here I did crack e snigger—finding his hand accidentally stuck to the mayor's hackside.

The mayor, or Governor, played by a palpably padded Jim Broadbent following strict in-Broadbent following strict instructions to be as gruesome and unfunny as possiblo. His hair stands up like a privet hedge and he executes several pleces of delightful business — plonking a Napoleonic hatbox on his bead instead of the hat, rugby-hooking some incriminating papers out of the way while creeping forwards with a subservient handshake — hut his grip on his colleagues is asserted, not demonstrated. The acting is not so much bad as just dull. The prying twins, for instance, missentirely Gogol's intention of showing incompetent surveillance methods with a collapsing door entrance that is funny the first time (less so the third) and then capped by an unlikely, invented, descent through the lodging window.

Another invention is the

sense. And where is the deli-rious farce of these scenes, the savagoly etched humour of e poseur exploiting the gullihle as they edge criogingly around him, one by one? Ivor Roberts's judge proffers a Masonic thumbshake; Fred Pearson's anonymous schools' inspector coughs on his clgar. Comic tension drains away by the minute.

Messrs Eyre and Mitchell last (and first) did this play at the Nottingham Playhouse in 1974, Jonathan Pryco coruscatingly memorable as a Glaswegian Khlestakov descending on a post-War Yorkshire hackwater with his Cocknoy sidokick. Ron Pember's Osip is elso Cockney, hat be makes the part count for little. Otherwise Deirdre Clancy's plush costumes are pressed into mid-19th century Russian service, provincial accents a strange mix of Landers and The Company of Landers and Landers and Landers and Landers are the Landers and Landers and Landers and Landers and Landers are the Landers and Landers and Landers and Landers are the Landers and Lande great drunken climax finds Rik Mayall on the mayor's pedestal. No concentration of effect here to compare with Peter Hall's 1966 classic downstage bunch-ing, from which Paul Scofield sic for the National Theatre; looks like a demented funster and the casting of Rik Mayall, from the off, curiously unsuperious presence of a silent function of the town dignitaries disaster.

Entering the Olivier arena Admittedly he transmits a you see a wash of scenic manu-

# Aldeburgh in London

Purcell's G minor Chacony Holloway borrows his prose for the first piece of music to texts from Siegiriod Sassoon, be heard at an Augusty Test. Walter Pater, Virginia Wooli be heard at an Aldebury Festi-Wester-Pater. Virginia Woolf and (if there is a German poet, it would have to be) Rilke. The Bassoon and Pater are delicately pointed, mainly by single instruments, water bubbles, a robin drops down from a tree, erimson light gleams through a fog. The Woolf has the most claborate and sensual accompaniment, as val for (then played by a small string erchestra) it opened the very first festival event, a choral and orchestral concert in the Parish Church on June 5, 1948. The concert presented by the Aldeburgh Foundation at the Wigmora Hall on Saturday night in aid of the Aldeburgh Appeal also goened with the Chacony. Asia selection of the second o also opened with the Chacony, played this time by the Brindial String Quartet—a well-made and vigorous account, though it was Pears's delivery was charace pity the whole piece was not teristically gentle and urhane, instantly recognisable. An undelivered in the same delicate non-vibrate which they reserved assuming uneventral piece: I suspect that given a lively variety of any good texts, and a half-decent hand at word-painting (Holloway's is better for the last eight bars. One doesn't have to be a purist to find Purcell string music played with such a rich venear of vibrato a little like hearing

than that), the recipe in any case can hardly fail. Mozart played on a Hammond case can hardly fail.

The programme continued as it had begun with Purcell and Britter. Organ The evening's new place, and e London premiere, was Moments of Vision by Rohin Moments of Vision by Rohin Britten. There was Purcell-Holloway: a memorandum of Britten, too: five Purcell songs about 15 minutes for volce and four instruments, written sepecially for the speaking volce of Peter Pears, first performed et last year's Aldeburgh Pestival. There are cartain unavoidable formal limitations: for string martet; and a pair of necessity he plainly evocative of Canticles, the beautiful 1947 of necessity he plainly evocative of Canticles, the beautiful 1947 of necessity he plainly executive Quaries setting "My beloved of the words, rather than amble is mine" (no. 1), and the later, guous, or subtly illuminating; more solf-consciously artificed and so as not to drown them, setting of Eliot's Journey of it can never be too assertive. the Magi (No. 4).

# More 1955 → /St. John's

cellent conductor was Oliver conductor was Oliver Knussen, the harpsichord and pland soloists in the Concerto this hall); for its length it could usefully have had more hite. The high soprano in Alexander Miss Cook's assured way with Goehr's concert aria (now to be of his opera of the same Deberah Cook. Those last three have been heard before in the same works, and delivered them here with splendid confidence. In Sinfonietta concerts, however, the music is the thing. Boules first. His new Derive is a tribute to Sir William Glock, who has just retired as director. of the Bath Festival; the title, of the Bath Festival: the title, as eften with Bouler, suggests ambiguous readings, but the casiest one—something like "drife"—answers plainly to the pictorial sense of the piece. Borne up on almost continuous trills and tremelos, gleaming with vibraphone showers, slow. languid waves do indeed roll up and back, making soft eddies when they overlap. From the first chord, hig succulent chords are the basis of the piace) the score is singularly heantiful: score is singularly heantiful: Bouler's fine ear for placing timbres is unmistakable. A third of the way into Dérive e sort

Thursday's concert in the texture, but it soon coalesces current London Sinfonietta with the steadily rocking barseries,—which—is—maintaining mony. An encore was demanded their distinguished standards, and happily given.

their distinguished standards, offered music so various in scale—from a brief new Boulez sextet to Elliott Carter's dense, percussion-laden Double Concert—as to test the tricky St secuence of four "dances" from a first lyrical ritual to some energetic whooping with an interesting note of aggression. Conservative in spirit effectively sonorous (if a trifle blotted in this hall): for its length it could name) didn't disguise the absence of any sharp profile in the piece, which boasts delicately knitted orchestral middle-volces of no great expressive variety beneath the aerial excursions of soprano and vibraphone. Robin Holloway's Showpiece, from the Sinfonietta's 1983 Gala, retains its pugnaciously larky glint; Carter's Double Concerto is by now a Sinfonietta showpiece and its dazzling elaborations made their impact

Why Me?' tour

# Of course, such trivial innovations and curlicues might be welcomed with rapture if the evening as a whole was even remotely funny. It is not even vestigially amusing. Two chief reasons for this: Mr Eyre and his designer John Gunter have gone rather solemn and pondorous in the manner of people who know they are doing a classic for the National Theatre; and the casting of Rik Mavail.

Richard Briers is appearing in Stanley Price's new comedy

Why Ms? at the Richmond
Theatre from February 4 for
two weeks, end at the Theatre
Royal in Brighton from February 18, also for two weeks, before opening at the Strand
Theatre in London on March 5.

British première of John Century

Theatre in London on March 5.

# Chicago Symphony Orchestra/Festival Hall

**Dayid Murray** 

On their triumphal visit to London last week, the Chicago Strings can play by way of a preliminary canter. A New Yorker of aimost 47, A new Yorker of aimost 58 higger than other pands. One has to say that the perform-per with the coreture, the Tournamers, Yoreture, per way then plant the performance is belief to them, and its away they good in principle. One has to say that the performance is belief to true it say they precise ansemble, though the survey of the principle.

A New Yorker of aimost 47, A new Yorker of aimost 47, A new Yorker of them, and its away they good in principle. One has to say that the performance is belief to true in the performance in th

the old Lyric Hammersmith in 1958. Tha cast includes Diana Rigg, Ronald Pickup and Cheryl Campboll and its opens on

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# Arts Guide

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Music

Music/Monday. Opera and Ballet/Tuesday. Thestre/Wednes-day. Exhibitions/Thursday. A selective guide to all the Arts ap-pears each Friday.

mulck Rouasia, violini Nathalie Bera-Tagrine, piano: Bech, Reethoven, Brahms (Thur). Salle Gavean (363 2030). · LONDON

Antico Saspadi, piano: Beethoven (Tue), Salle Gaveau (5632030). Orabestre de Paris, conducted by Car-lo Maria Glulini: Brahms Symphony No 2 and No 4 (Wed, Thur). Salle Playel (5635672). Boyal Festival Hall: London Philhar-sonic Orchestra, canducted by Klaus Tennssult with Alfred Brendel, pieno. Beetho (Tue), (928 3191). on. Beethoven and Bruckner

(Tua), (228 3191).

Aldo Ciccolini, piano. Mozart and Liszt. Queen Elizabeth Hail (Wed). (228 3191).

Boyal Philharmonic Orchestra conducted by Yuri Temirkanov with Dmitri Alexsey, piano. Saint-Seens, Grieg, Falla and Stravinsky. Royal Festival Hall (Thur).

TALY

Rome: Antitorio di Via della Conciliaz-iona: The soprano Karan Arm-strong. Nono, Schoenberg and Bee-thovan, canducted by Ginseppe Sin-opali (Mon. Tue.) (85.41.944).

Rome: Tentro Olimpico: Chopin: sopra-no Zora Jehlickova and the planist Ivan Moravec (Wed). (393.304).

Ostorio del Gonfalone: (Vicolo della Scimie I/B): The Harpsichordist Liv-cy Shen playing three J.S. Bach par-

cy Shen playing three J.S. Bach par-titas. (Thur). (655.952).

NETHERLANDS

NETHERLANDS

Retterdam, de Doelen. The Rotterdam

Philharmonic conducted by James
Comlon, with two Pagoretien, piano.

Comlon, with two Pagoretien, piano. Coulon, with two Pagorstich, piano. Coulon, with two Pagorstich, piano. Orthel, Tchalkovsky., Debussy, Rivasky-Karsakov (Thur); Recital Hall: Back Programme from pianist Jean-Louis Stauerman (Mon); Bor-

odin Quartet. Tchaikqvsky, Stra-vinsky, Beethoven (Tue); Schubert Lieder sung by Elly Ameling, ac-companied by Rudolf Jansen (Wed).

companied by Rudolf Jansen (Wed).
(142911).
Amsterdam, Maison Descertes (Vitzelgracht 2a). Boscherini Trio, Roussel,
Dohnanyi, Beethoven (Mon).
(224935).
The Hague, Congreggebeuw, Dimitri
Demetriades conducting The Hague
Philharmonic, with Shura Cherkassky, piano, Brahms, Mahler
(Thur). (548 000).

Bach organ recital, Church of Notre Dame du Blankedelle (Mon).

Muste Esstrumentale Anne Fruidebise, harpsicherd, and Emmanuel
and Jean Paul Pirard, flute. Quants. Bach, C.P.E. Bach and Fredrick the Great (Wed). (511 3595).

Liege Symphony Orchestra conducted by Pierre Bartholomée with Yuri Egorov, piano. Mozart and Mabler (Thur).

VIFNNA

Royal Swedish Chamber Oychestra, conducted by Mais Liljefors. Bach, Vivaldi, Scarlatti and Shostakovich. Musikverein (Mon). Alban Berg Quartet: Mezart, Hauben-stock-Ramati and Schubert. Konzep-

(525681). Festival Concert: Ensemble Harmonia Nova. Hiechinger, Soyka, Holik and Bednarik. Urania (Thur).

New York Philharmonic (Avery Fisher): Zubin Mahta conducting Eva Marton, soprano; Peter Hofmann, tener; Martii Talvela, bass. Wagner: Die Walking Act I (Tue); Zubin Mehta conducting: Jesaye Norman, soprano, Mozart, Berg (Thur), Lincoln Center (874 2424).

Feb 1-7

Carnegie Hall: Vienna Octet: All-Schubert programme (Mon); Concerto Soloists of Philadelphia, Marc Mos-tovoy conducting; Paul Badura Sko-da, piano. Handel, Mozart, Copland, Haydn, Bartok (Wad). (2477459). Markin Hall (Goodman House): Na-

tional Cherale soloists, Martin Jos-man, conducting Mozart, Salieri (Wed). 67th W. of Broadway (3628718).

WASHINGTON

National Symphony (Concert Hall): Mstislav Rostropovich conducting: Matti Salminan, bass. Oratorio Society of Washington directed by Ro-bert Shafer. Sibelius, Mussorgsky (Tue); Erich Leinsdorf conducting. Bach, Bruckner (Thur). Kennedy Center (254 3776).

Montreal Symphony Orchestra, con-ductor: Charles Dutoit Wagner, Sib-elius, Debussy, Ravel. Hitomi Mem-orial Hall (Mon.) Schumann, Mahler (Tue). Tokyo Bunka Kaikan (571 (689),

madeus Quartel: Haydp, Mozart, Beethoven, Hitomi Memorial Hail (Thur). (5458348).

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Monday February 4 1985

# The need for cheaper oil

occasion surprise in the more speculative corners of the currency and futures markets; hut on e more sober view. e ramshackle compromise of the ramsnackie compromise of the kind agreed last week was always the most likely outcome of the Opec meeting in Geneva. There is little more than wishthe tribing behind the fashionable belief that the oil cartel is certain to collapse through the action of some immutable law of market economics.

If recent events have shown the merkets that Opec is still a force to be reckoned with, they should have provided an even more important lesson for the oil producers themselves. Opec survivea today heceuse of its members' mutual interest in evoiding disaster; this is bardly cause for celebration in a body which was supposed to offer its members unparalleled prosperity, not a succession of near-fatal crises.

Opec is in trouble not because cartels which rig prices always

get their just retribution. They do not. Opec, however, happens to be e cartel which pushed its price too high for the good of its own members. Partly as a result of its folly in linking prices to the eppreciating dollar. Opec has made oil consumption unaffordable and oil production. production extraordinarily profitable for most of the world. if Opec is to serve the genuine long-term interests of its memhers, it will have to start reversing this process sooner or

example stem not from largely illusory falls in the oil price since 1979, which have been more than offset by the rise of the dollar. If price alone were in 1979 in the currency of its largest trading partner, which

Nigeria's, and Opec's, only hope of trying to recoup some of this lost output must lie in stimulating worldwide oil consumption with a moderate fall in oil prices. Because they control simost the whole of the world's surplus production capacity. Opec members would gain more than proportionately from any improvement in demand for oil. If, for example, a 10 per cent price cut triggered a 3 per cent increase in worldwide oil consumption efter two years, as suggested by OECD estimates, this would amount to 1.4m barrels a day. amoint to 1.4m barrels a day.
If all this extra oil demand were captured by Opec, on the grounds that non-Opec producers are already pumping very near their maximum output, the cartel's output could rise by nearly 9 per cent. Adding to this nurse price effect the to this pure price effect the benefits from faster worldwide economic growth, Opec might he able to recoup its revenue losses from a price cut in two ses from a price cut in two

The Print of the Party

The real payoff, however, would come in the longer term. Nobody could guarantee that cheaper oil would induce sub-stantially higher long-term consumption and lower exploration outside Opec; but against the prospect of sticking to the present miserly production quotas for years or even decades to come, any rational calculation of risks and rewards should suggest to Opec that a co-ordinated, moderate price cut, like the one agreed in March 1983, is a risk worth taking—particularly since a cut of 15 per cent would still leave oil prices in Europe above their March 1983 level

Of course, the world is not a rational place and it would be the issue, NIgeria today would too much to expect that Opec be sitting pretty—every barrel would orchestrate a price of oil it exports it worth 15 per cent more, even after adjustment for inflation, than it was unrealistic to ask the British unrealistic to ask the British Government to undermine Opec's new price structure in beppens to be Britain. The the near future, while memories reason Nigeria is on the verge are fresh of sterling's recent

# he Austrian traumas

Dr Friedhelm Frischenschlager, Hainhurg on the Danube, After the Defence Minister, can be police had clashed with objecjustified only on grounds of tors who had occupied the site, short-term expediency. Hed the Dr Sinowatz decided to call off House voted on Friday to dis-miss the minister because of everyone the chance to think the fulsome and unnecessary again. welcome be gave to a war crim-inal released by the Italians, Dr Sinowatz inherited from his the coalition government of Dr predecessor, Dr Bruno Kreisky, Fred Sinowatz would almost remain unresolved. No clear certainly have fallen apart. New line has emerged towards the elections would bave become deficit-ridden industrial hold-

In the present state of public have stood to lose seats. So, because of the arrival upon the scene of the Greens would the conservative People's Party which sponsored the no confidence of the Greens would the conservative People's Party which sponsored the no confidence of the people ence motion. Hence all three parties represented in parlia-

ment bad an interest not to let matters come to extremes. It is a pity that Dr Frischen-schlager should have become embroiled in this affair. Unlike embroiled in this affair. Unlike so many Austrians be hed proved willing to confront the two traumas of recent Austrian history. In order not to let people forget the horrors of Nazi rule hetween 1938 and 1945 he arranged for army recruits to take the oath of allegiance on the site of Manthausen concentration camp. A similar ceremony was held at nausen concentration camp. A similar ceremony was held at Karl Marx Hof in Vienna where army gunfive destroyed a Socialist stronghold in the civil war of 1934.

### **Objections**

Both gestures set Dr Frischenschlager well apart from the so-called national wing of the Freedom Party where Herr Wal-ter Reder, the former SS major whose return from Italy caused the crisis, has been lionised as a heroic figure. The minister's a heroic figure. The minister's personal motives in welcoming Herr Reder remain obscure. But his lack of political judgment is evident. He himself has admitted to having made a mistake. Folly is not an asset to any minister—let alone to the minister of the minister. ter of defence.

To Dr Sinowatz the affair number of people.

must be an insistent warning to impart a greater sense of direction to the coalition which he has headed since May 1983.

Affairs have tended to drift and the Government has looked like organised workers who are appropriate to the companied workers.

THE CONFIDENCE expressed cided to give orders to build by the Austrian Parliament in a hydroelectric power station at

ings of the state. No decision has been made on new fighters opinion Dr Sinowatz's Socialists for the air force, though its and their smaller partners, the present equipment has been Freedom Party to which Dr obsolete for years. Progress Frischenschlager belongs, would with curing a structural budget deficit has been painfully slow. Yet thee are really symptoms

on the suface only. A deeper on the surface only. A deeper malaise surrounds the consensual system that has governed to sort things out, it has decided to appoint as interimented the war. It found its fullest expression in the coalition hetween Socialists and People'e Party which governed the country until 1966. When it was successful was a surface only the country until 1966. When it was successful was a surface only to surface on the surface of the group, who had asked to retire for health reasons. Sual system that has governed Austrian public life ever since the war. It found its fullest expression in the coalition hetween Socialists and People'e Party which governed the succeeded by one party government—first by the People's Party, then hy the Socialists — the consensual system held together. Trade unions and husiness worked hand in glove and hointly con-stituted e major centre of

### Considerations

That alliance exists to this day, but its power has waned. Business and unions are at one in wishing the Hainburg power station to be built. They did not get their way and may possibly never do so. Moreover both the Socialists and the People'e Party are split between environmentalists and the so-called "concrete pourers" who do not wish to have industrial development stunted by environmental considerations.

It is a phenomenon very much derived from the affluence Austria has achieved. Affluence indirectly has begun not so much to undermine the consensual social partnership as to

stumbling from one crisis into afraid thet unemployment may rise above its modest current the Government, against environmentalist objections, device of the control of the

ECONOMIC VIEWPOINT

# British economic policy after 14 per cent

By Samuel Brittan

IL, of and oil again. of the first Thatcher Government were largely dominated, not by the "rigid monetarism" of college debating society imagination, but by the effects on sterling of the second oil price explosion and the coming on stream of North

The events of the second Thatcher Government are likely to be dominated by downward pressures on the oil price and pressures on the process and prospect of a gradual rundown of North Sea output. The resulting depressing effects on sterling are the mirror image of the earlier uplifting ones. To cope with them the Government may have to rethink its mix of fiscal and monetary policy in the way discussed at the end of

this article.
None of this means that
Britain is a one-commodity
economy, as some of the sillier economy, as some of the sillier foreign exchange market gossip would have it. Oil accounts for 5 per cent of Gross National Product. Net exports of oil amounted to about 7 per cent of total overseas receipts, visible and invisible. Even as a proportion of Government revenue it is only about 8½ per cent.

Nevertheless, as far as sterling goes, the tail wags the dog. The rise in sterling in 1979-80 was far larger than the direct was far larger than the direct balance of payments gain from the rise of North Sea produc-tion or the rise in the oil price

would have suggested.

Part of the subsequent fall, Part of the subsequent fall, which has been going on ever since in a series of steps, is simply a rebound from that unsustainably high level which caused Sir Michael Edwardes to make his famous remark about North Sea oil: "I wish we had left the bloody stuff in the ground."

The true swing in sterling has, however, been very much less than suggested by the often quoted but ridiculous, range

### Misleading hang-up on the dollar rate

from over \$2.40 in 1980 to just over \$1.10 now. These figures reflect the rise of the dollar and have been paralleled by dra-matic falls in the dollar rates of most European currencies. Yet West Germany, France and Italy have not had to contend with a public opinion which from the Prime Minister downwards, is hooked on the ex-change rate with the dollar.

But even the swings in the trade-weighted sterling average

White Paper which is no more especially on the up side in 1979-81 have been larger than pustry, and this led many writers of City circulars to look for hidden signs of extreme dour-citic severity in 1979-80 and of great larity in recent months.

These explanations are far-fetched. There would have been much less interest in picking over the entrails of the mone tary and fiscal statistics if the entrails of the mone oil price had not shot up in the economic fundamentals would justify, and this led many writers of City circulars to look

earlier episode and been under are now catching up with the downward pressure recently.

The probable explanation of
the 1979-80 sterling rise is in
terms of international portfolio preference. British possession of North Sea resources when of North Sea resources when the oil price was exploding for a second time, and energy crisis talk was rife, increased the attractiveness of sterling for overseas and domestic bolders, who perhaps also liked the look of the newly arrived Thatcher

It is more difficult to say why the more moderate downward shift of the oil price — and that only when measured in dollars — should have a hearish effect on sterling. Certainly the posing of the question "What shall we do when the oil runs out?" has been in highly exaggerated terms.

The speed of decline of oil production is likely to be much more gradual than often supposed. Many North Sea oil operators expect the UK to remain self-sufficient to the end of the century.

It is hardly surprising that It is more difficult to say why

of the century.

It is hardly surprising that the non-oil balance of payments should have deteriorated so sharply when the oil balance has shot up from zero in 1979 to some £7bn surplus in 1984. If the UK moves from surplus to eventual self - sufficiency it would need to find other exports or import-savings amounting to 7 per cent of total overseas earnings. This hardly requires a heroic depreciation.

The UK's position as an The UK's position as an international financial centre as

well as an oil producer makes the pound more vulnerable to oil price rumours than the cur-rencies of say Norway or the Gulf states. We just have to accept that the sterling market is dominated by matters such as talk in New York of a \$20 oil price and tends to fluctuate with OPEC's fortunes.

If a domestic cause is required for sterling's difficul-ties it is the coal strike, in both its psychological and arithmetical effects. The extra £2 to fishs that the strike has added to public spending and public sector borrowing and subtracted from the current balance of payments surplus (yes, surplus) have strained credibility to far. redibility too far.
The public expenditure total

is always an aspiration and a struggle; and the coal strike has been piled on top of the normal overshoot which the contingency reserve is there to provide for. The fact that public spending has gone over the top in 1984-85 casts extra doubt on the longer term annual Public Expenditure nor less unrealistic than earlier White Paper. Their purpose is to stake out lines for battles between the Treasury and the

fact thet the strike has been going on for nearly a year, that the strike has been conducted with an unparalleled violence and intimidation whose true instigators have never been brought to book; and that Britain seems a hitterly Britain seems a hitterly polarised and divided society whose senior university reserves for the Prime Minister a batred which would be better directed against Arthur Scargill.

Those economists and finan-

cial analysis who have always wanted e quick move to zero inflation and balanced budgets, and who always thought financial policy too lax, are entitled to respect. But many of those who now make this criticism-were only a little while ago decrying the concern for monetary targets, and denouncing the Government for being too puritan in not taking capital expenditure out of the Budget and making numerous other adjustments which would have allowed more spending. Monetary and fiscal policy are of course merely means for regulating domestic demand. With the national income in

money terms (Nominal GDP)
rising by less than 7 per cent
per annum and with inflation
below 5 per cent and unemployment at well over 8 million and still rising the case that demand has been rising too quickly, or ebout to do so, esems to me very weak. One can accept that pressures on sterling have forced e harder line without regarding these pressures as some divine punishment for

domestic profigacy.

The Treasury has made too much of a mystery about sterling being a possible indicator of monetary conditions.

The effects of a lower pound in indicator and a possible indicator of monetary conditions. on inflation are not mysterious. There is the direct effect on import prices. There is also the ultimately more important effect in raising the prices

### Sterling fall not desired by the Chancellor

which British producers can charge against competitors at home and abroad. The critical point is where import-induced inflation, combined with fatter profit margins, feeds through into higher pay settlements: The degree of depreciation consistent with any given inflation target depends on what

else is happening at the time.
The weakness of commodity prices and the low rate of "world inflation" allowed the Government to tolerate the modest 7 to 8 per cent depreciation which occurred in 1984 or where depreciation is exagainst the mark and non-pected for other reasons, will dollar currencies.

that depreciation was seen as a cost not a benefit and there was always a limit to what was toierable. (Even the "Treasury Model" now shows depreciation tending to reduce output and amplement.) mployment)
The Chancellor's main mistake

was to say too little and stick to obscure Treasury formulae. There is a case for playing your cards close to your chest, but not if those around you stump around in bob-nail boots. Somebow or other the impression got around that the Government did not care where sterling went; and even when Treasury and Bank officials changed their tune, messages of indifference The lesson of the episode

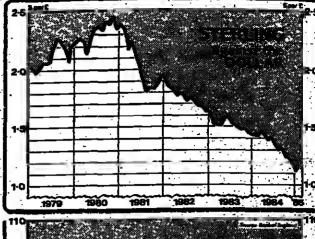
aurely is that the Chancellor, who is not personally enamoured of the lobby system, should give regular on-the-record briefings so that his own views and intentions are clearly known and do not have to be sought in obscure passages of Hansard. This is more promis-ing than trying to gag officials, which cannot be done in a free society where people's views be-come known without anything so wicked as "talking to the

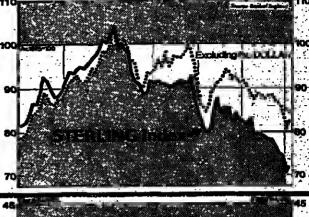
will be the order of the day. Caution will be the watchword rates. But one cannot always time comes to relax some re-examination of priorities will be in order. Since the Thatcher Govern

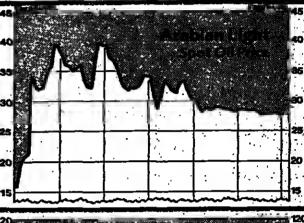
ment came to office—indeed since Demis Healey started talk-ing to the IMF in 1975-76—the object of financial policy has been to allow enough expansion of monetary demand to secure a reasonable growth rate but not to finance a reacceleration of inflation. This is what the Medium Term Strategy is for. sidiary strategy which perhaps I underplayed because I never really believed it. This was to follow a tight fiscal policy in the hope that this would permit low interest rates without in-

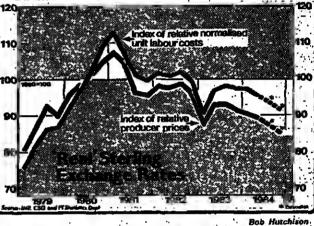
flationary consequences.

The snag is that the level of interest rates is set in a world market. Countries with low inflation expectations like Germany or Jepan will have comminal interest rates below currency is too high or rising the world executed in the currency is too high or rising the world executed in the currency is too high or rising the world executed the currency is too high or rising the world executed the currency is too high or rising the world executed the currency is too high or rising the world executed the currency is too high or rising the currency i the world average, and those er inflatio









Economic Viewpoint of March 8 1979, when Mr Healey was still

too quickly, a lower Budget

deficit is in order. This was

up its own exchange rate. any such move, But once that This counter-intuitive propo- has occurred, say leter on in sition was mentioned in an 1985 or 1986, e change in the policy mix to somewhat looser. Budgets offset by tighter money, may be an improvement on the policy combination previously Or to put it another way: just

as the U.S. needs a little less Reaganism, maybe the UK needs a little more,

already the case in the last cial rigour rules. The main Healey period and became even hopes for an alleviation in un-

# Airbus seats

The top management shake-up at Airbus Industrie is turning into e messy business. The four nation European aircraft manufacturing consortium has failed to come up in time with a replacement for Bernard Lathiere, Airbus president for the past 10 years, who steps down today.

The affair is all the more embarrassing for France since the French socialist transport minister, Jean Auroux, an-nounced on Friday that Lathiere's successor had been

The man named was Jean Pierson, 44-year-old head of the aircraft division of Aerospatiale, the French state-owned aerospace group, who worked on Concorde and has been involved with Airbut state.

But Auroux'e announcement was a bit premature. A few hours later, an Airbus board meeting ended in Munich without a firm decision.

In an official statement at the weekend, Aerospatiale claimed that Pierson will be the only candidate for the post. The face-saving communique added face-saving communique added that since the start, the Airbus chief executive has always been a Frenchman, and that Pierson hed been accepted in principle by the other pariners in the consortium.

**Men and Matters** with all the top Airbus jobs. Indeed, there has even been talk of a proposal to appoint three vice-presidents (one German, one British, one Spanish) to flank the new

French president.
The Airbus board is due to the succession problem — but the lacue is now likely to be raised during the official visit to Bonn today of Laurent Fabius, the French prime minister.

### Sporting bet

Sports stars have long been valued for their help in selling consumer goods. Now, if events in the oil-rich Canadian province of Alberta are anything to go by, bankers, too, are begin-ning to appreciate their worth. The Alberta Treasury Branch. the provincial government's contracts of players and coaches with the Edmonton Ollers, North America's champion ice hockey team, as part collateral on a C\$3im (£20.6m) loan to the flamboyant entrepreneur Peter Pocklington, who own the team

the team.

Regarded as especially valuable are the two contracts signed by Wayne Gretzkey, tha 23-year-old Oilers' player who has become, as they say on the sports' pages, one of the living legends of North American sports. Gretzkey and his team-mates



age you could get ten bars of checolate for a pound and still have change for a packet of crisps"

capture the leadership of Canada'e Progressive Conserva-

### Rolls reactor

Sir Francis Tombs thought he'd Sir Francis Tombs thought he'd had enough of state industry when he walked out as chairman of the Electricity Council in 1880, piqued by the Government's refusal to unify the electricity supply industry as its predecessors had promised him. He rebuffed every Government effort to woo him to another nationalised industry chairmanship. So why, at 80, has he now changed his mind and taken over et Rolls-Royce? by the other partners in the consortium.

But while it seems likely that Pietrson will get the joh in the end, the other partners—Britain, Spain and especially West Germany—appear reluctant to accept another Frenchman to succeed Betelle in the number two spot.

The Germans would like Johan Schaeffler, head of the aircraft division of Messers schmitt-Bolkow-Blohm, to get that joh if not the top post.

And they are in no mood to let the French walk off again

# executive director of Rolls for the past two years, but since leaving the Electricity Council be has built e new career as a be has built e new career as a company doctor, tackling such ailing companies as Weir, and Turner and Newall, and the novel challenge of the embryonic biotech company, Celltech. Tombs says he took lessons from Lord Weinstock, for whom he worked for five years in the early 1960s building large turners. early 1960s, building large tur-In the 1970s, be disagreed vehemently and publicly with Weinstock in opposing the choice of the U.S. designed pres-

sured water reactor. He still does - so far as electricity supply is concerned.
But not for submarines, Rells-Royce is the Royal Navy's main contractor for the PWRs which

power Britain's nuclear fleet.
It has built ebout 20. Tombs
sees the PWR providing
"exactly the right conditions
for submarines." for submarines."

So far, Rolls has huilt anglicised versions of the original U.S. submarine reector, updated by its own fuel technology. But shortly, it will roll ont PWR2, the first all-British PWR, factory-built as a eingle 1,600-tonne assembly at Barrow. This will be the powerplant

This will be the powerplant for a new class of hunter-killer subs, and later for the big Trident boats.

# Paper money

Apart from its cars, Austin Rover's plant at Longbridge, Blrmingham, also produces some 13,000 tons of waste paper Now, four apprentices have come up with a scheme to turn the paper from secretaries' waste hins into fuel pellets which could replace coal in the plant's boilers.

Longbridge consumes as moch electricity as a town the size of Oxford and burns over 77,000 tonnes of coal a year, costing
f4m — over £50 a tonne.

Andy Barr, AR's managing
director, operations, has ordered director, operations, has ordered a feasibility study into the paper conversion scheme which, it is reckoned, could save no to £500,000 e year for an initial investment of £200,000.

Observer

# How to keep tabs on the index

There are no less than 741 companies in the FT Actuaries index. Every one of them a leader in its field. Every one a force to be reckoned with.

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FOREIGN AFFAIRS: JAPAN'S DEFENCE SPENDING

# The barrier that may soon fall

By Ian Davidson in Tokyo

ONE WAY or another, it dissent adds up to in the begins to look almost inevitable obscure world of Japanese that Japan's defence spending political manoeuvring it is will this year break through the magic barrier of I per cent foreigner to assess; it may be that Japan's defence spending will this year break through the magie barrier of I per cent of gross national product which bes been a totem in Japanese politics ever since it was voluntarily erected in 1976 by the then Prime Minister, Mr
Takeo Miki. Until it is broken,
the 1 per cent figure will be a
subject of intense political controversy, not only on the part
of the Socialist Party, the
largest opposition group, but
also within the ranks of the
ruling Liberal Democratic ruling Liberal Democratic policy.
Party, as it was in last week's What debate in the Diet. But even if the barrier falls, it is clear that Japan will still be a long way from having a plausible defence posture, let alone a coherent geo-strategy which commands broad based

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commands broad based domestic political assent.

As a former Defence Minister, Prime Minister Yasuhiro Nakasone has long been an advocate of a stronger defence posture, and this year's projected increase of 6.9 per cent in nominal terms (or about 4.5 in nominal terms (or about 4.5 per cent in real terms) leaves defence spending at 0.997 per cent of GNP. What is likely to push it through the magic barrier will be the public service pay increase which is due to be awarded half-way through Yet though Mr Nakasone was

reappointed by his party to the reappointed by us party to the premiership last year, in principle for a second two-year term, his position is anything but secure, and he has been unable to confront the 1 per cent issue head on. Despite what everybody assumes to be almost inevitable, ba argued last week in the Diet that the final defence spending outcome was unpredictable because of uncertainties about the future pay increase and about the eventual rate of economic growth. The furthest he dared go was to hint that the Government might review the 1 per cent position "if necessary."

His evasiveness did not go unchallenged, even from within his own party; a group of Diet members, including two of Mr Nakasone's predecessors, Mr Nakasone's predecessors, Mr. Miki himself and Mr. Zenko Suzuki; publicly called on the Government to respect tha 1 per cent limit, on the grounds that the breaking of the barrier could lead to unrestrained defence spending and would bave adverse political effects abroad. Just what this public little more than a pretext for rival factions to put pressure on Mr Nakasone in advance of elections which, some observers believe, could be brought for-

What the breaking of the 1 per cent barrier will not do, one may confidently assume, is open the floodgates to an uncon-trolled rush of defence spend-ing in future: there simply is no political constituency of any size for such an idea. Even more constricting than the Miki ceiling is the post-war consti-tution which renounces war as a sovereign right of the nation, and while the opposition Socia-list Party has come round so far as to admit that the Self Defence Forces (SDF) are legal if unconstitutional (a curious position, in all conscience), lt remains wedded to the idea of unarmed neutrality. The trauma of the disastrous consequences of World War II remains etched in the public memory: and in any case it has for 40 years been politically convenient, and economically advantageous, to shelter demurely under the wing of the American

Symptomatic of public attitudes to defence spending as reflected in the media was an editorial last week in the Asahi Shimbun, Japan's second largest-circulation newspaper, urging that the 1 per cent ceiling should continue to be respected, while conceding that it would be difficult to know where and how to make the corresponding cuts.

The trooble with the 1 per cent totem is that it derives from a bygone era. In the late 1950s and early 1960s defence spending was consistently above per cent, though starting, of course, from e very low base. By the late 1960s, however, despite relatively rapid annual increases, it shrank below the magic I per cent because it was easily outpaced by the phenomenal growth of the Expenditure **30%** TOTAL Sbn

in Japan.

In a departure from the tradi-

tional way of doing things, Prime Minister Nakasone set up

a lay study group to examine
Japan's security position; when
it reported last December it
argued not merely that the 1

per cent ceiling, which might have bad some justification in 1976, should now bo reviewed in the light of the changed international situation, but it

also recommended a recon-

achleved in other ways,

rising rapidly in percentage terms, but by then the context had changed. The first of the two oil shocks had reduced tha economic growth rate from around 10 per cent a year to around 5 per cent, with sharp zig-zags up and down; and East-West relations were briefly passing through the era of detente, characterised by the first Strategic Arms Limitation first Strategic Arms Limitation Treaty (Salt) and the Helsinki agreement of 1975. It was in the following year that the Miki Government enunciated the 1 sideration of the 1976 National per cent guideline, as well as tha National Defence Pro-Similarly, the Research Instigramme Outline which remains tute for Peace and Security, to this day the basis of defence planning.

Since then, of course, a great

Since then, of course, a great deal bas changed, not just because the election of Presi-dent Ronald Reagan usbered in the sharpest frost in U.S.-Soviet relatious since the Cold War, but because of the rapid in-crease in Soviet conventional power, most visibly in its naval forces in the Pacific.

It is sometimes said-indeed, it was said to me last week in Tokyo—that Japanese perceptions of geo-politics tend to lag several years behind the rest of the world. Like many such generalisations, it may be only partly true; and since the remark was made to me by one of Japan's leading strategie analysts, it may have contained an element of elegant self-deprecation on behalf of his Japanese economy.

During the early 1970s, now the evidence that we no defence appending was patill longer live in the age of detente get the largest share of the budget, but in reality the top priority should be air defence and anti-submarine warfare. The trouble with this recommendation is that the three defence forcea are virtually independent lobbles; and the corollary of that is that their rivalry virtually precludes the possibility of combined oper-ations, and that there is no effective unified joint defence

defence forces are managed.

The ground defence forces

What is required, according to the RIPS report, is e strengthening of the position of the chairman of the Joint Staff Council in the military sphere—at present ba is just the highest ranking officer—and the formation of a Defence Deliberation Council in the political sphere, in order to ensure continuity in defence policy, despite the musical chairs in the office of prime ought to be undeniable, even

minister.
But perhaps the most sensitive defence policy issue facing Japan is incapsulated in the term "collective security." The fundamental premiss of the 1976 National Defence Programme Outline was that the international situation was basically stable, that Japan's nitimate safety rested on the security treaty with the U.S., and that therefore Japan'a national defence requirement was only for the capability of resisting e " himited and smallscale aggression " against:dapan itself.

This fomulation satisfied the essential political requirement, which it roundly dismissed the 1 per cent ceiling as having no rational basis et all, and argued that it would be difficult to first that Japan would only engage in self-defence, second thet it would not get dragged into any superpower conflict on the coat-tails of the Americans. reach the 1976 defence targets without breaching the ceiling. It made ritual obeisance to left-But Professor Seizaburo Sato, an iconoclastie analyst at Tokyo wing demands for restraint in university, openly scoffs at the idea that there could be circumstances in which Japan—let alone that the global situation is essentially stable; and defence spending, but main-tained that this should be In the past, much of the foreign (ie American) criticism of the Japanese defence budget the RIPS report, while professing not to challenge the 1976

present age is concerned, there can be nothing but collective

To an outsider, it is far from clear how the debate will pro-gress from here. If the current clamour for sticking to the 1 per cent guideline proves more ritualistic than real, then the proponents of restraint in defence spending will have to shift their ground towards some different criteria. In thet process, they might be forced to consider military output rather than simply financial input what defence capability Japan really gets for its money, rather than just the money it spends. Conceivably, the political elite might have to debete the fundamental purpose of defence spending—though that may be too much to ask.

Unfortunately, there are major inhibitions which are likely to impede any cool reappraisal of security policy. The first inhibition derives from Japan's structural military weakness in relationship to the U.S. Tokyo has long believed, and rightly, that security depends on a broad gamut of diplomatie and economic policy, as well as on defence. If, against the odds, the Government were to edge closer towards a concept of collective security, it could scarcely do so in the exclusive context of the U.S. Japanese relationship, It would need to find other interlocutors as well, estarting, no doubt, with the European members of the Atlantic Alliance yet European-Japanese relations are far less developed than those between Europe and the U.S., or those between Japan and the U.S.

The second inhibition is psychological and intellectual, there is virtually no tradition of strategic debata in Japan, even in academic circles and it is not a popular subject. When Professor Sato proposed, five years ago, the first ever course in strategic studies at Tokyo University, be was strongly advised against the idea by his superiors, on the grounds that of the Japanese defence bridget is that it is simply too small and growing too slowly to reach the 1976 targets until the end of this decade (if ever), let alone the rather more ambitious goals suggested by Washington. The RIPS report goes further, and argues not merely that the 1976 targets were misconceived, but also that there are major in-security is ruled out, but tha hibitions like these will not be also that there are major in-security in the ing of the I per cent barrier.

about putting down a brand helicopters). new airport in beautiful unspoiled countryside, wasting vast resources on an unneces-sary white elephant to appease

industry.
The facts, which somehow got lost in the emotion of the debate, were about developing an airport in the most appropritae place to meet an un-deniable level of future demand an airport, moreover, that exists, baving been there for over 40 years, with one of the longest runways in the country, and with a new motorway, and an inter-city rail link, close by. Stansted qualifies because it is there. It is under-utilised, a major economie asset that could, with new terminals, bandle up to 15m passengers a

year or more, but which today handles only about half a What also got lost in the debate was any kind of recogni-tion that aviation is one of the few industries in the UK which consistently earns a surplus on foreign exchange. It is vital to trade and communications, employing directly more than 10,000 people and many more indirectly. It pumps into airport localities many millions of pounds a year. It has one of the highest growth rates over 10 nighest growth rates—over 10 per cent in London and the South-east last year, with Man-chester recording 16 per cent. Aviation needs the ground infrastructure to meet such

growth.

More than anything else, the need will be for runway capacity Traffic growth is increasingly dominated by smaller, shortbaul aircraft, rather than long-haul Jumbos. To meet that growth, more use must be made of every available runway.

besides constructing more ter-minal buildings. It is easier to build terminals than runways—one can put another terminal into Heathrow, but not another runway. If the Government insists on maintaining its environmental pledge of no more than 275,000 air-

Airports and emotion

By Michael Donne

Lombard

ANYONE reading the Stansted built there, with its additional debate in Hansard, and noting 15m passengers e year and all the subsequent vote and Tory the associated aircraft \_vve rebellion against the Governments. Already Heathriw is ment, could be forgiven for close to saturation with 272,900 believing that the issue was all movements last year (including Runway capacity will thus

increasingly be the dominant theme. While the difficulties theme. While the difficulties of air travel to and from yet again a rapacious eviation London increase through the industry. Stansted, protected by its parliamentary vote and its vociferous environmentally-orientated minority, will peacefully slumber on undisturbed.

like a sacred cow.

That the debate was dominated more by emotion than by aviation was also demon-strated by the fact that MPs, anxious to avoid the development of Stansted on environmental grounds, argued just as ruthlessly for the expansion of Heathrow, dis-regarding the environmental rights of those living round that airport.

The "Case for the North" was pursued with equal vigour, and just as complete 2 lack of understanding of what aviation expansion is all about. Regional airports are growing, and will continue to do so. There is a case for more generous government attitudes to their develo-ment. But they cannot be boosted artificially by forcing in travellers who do not want

Tha basic position, therefore bas not changed. For the rest of this century London and the South-east will need more new terminals, and must make maximum use of all available run-ways, including Stansted.

If Stansted, and a fifth ter minal at Heathrow, are denied, where does that leave civil civil aviation? Millions will want to come to London, but where will they go, if they can't get in? Some may choose the regions, but most will go elsewhere — to Frankfurt, Amsterdam and Paris,

Increasingly, it can be seen that the cancellation of an off-shore airport at Maplin in 1974. was a short-sighted political mistake. Had it been retained, none of the current problems would have arisen. Perhaps, after all, the real solution to craft, movements at Heathrow tha current conundrum, even e year, it is difficult to see bow at such e late stage in the day, even, a fifth terminal can be is to revive the Maplin option

### Have the cake and eat it From Mr N. Brittain

Sir,—In the current debate on the best way to stimulete reduce the level of unemploy ment, the respective exponent of restricting growth in PSBR and Keynesian-inspired investments in the infrastructure present their cases as if the two approaches are totally incompatible. But need this be so? Could we not actually "have our eake and eat it?"

The dilemma the Government is facing essentially seems to arise from the fact that public expenditure in this country is controlled on a cash basis with capital and revenue spending-being edded together for the purposes of determining budgets and PSBR. Because of this, it is bardly surprising that, at a time when Government wishes to restrict the growth in its total expenditure, it is the capital rather than the revenue items that tend to suffer most. The reason for this is, of course, that the letter is normally more immediate by nature, is much more difficult to reduce in the short term, and covers the cost-

ine dilamma, bowever, might be avoided to 2 greater or lesser; but the five or of traditional public capital investment were to be funded by the private sector, with an appropriate rental then being charged to the various public agencies for the assets that they used. Following the example of the French in regard to the funding of some of their "autoroutes," such a charge, as in a hire purchase agreement might incorporate an element of eapital restoration so that the asset, in due course of time, would provide the Government at least in the show at least the state that the same and its captured to the state of taxing lump sum benefits and then only for the 1985 budget, e great degree of fiscal neutrality, but that states should not interfere with business (or personal) decisions. In the concluding paragraph to we with the same and then only for the 1985 budget, e greater degree of fiscal neutrality, but that states should not interfere with business (or personal) decisions. In the concluding par

would provide the Government, at least in the short- to mediumterm, with the opportunity of increasing the level of its eepltal investment considerably while, et the same time, avoidwhile, et the same time, avoiding any corresponding strain on PSER. The philosophy could indeed be extended further, with existing publicly-owned assets being sold to the private sector and then leased back, as is the common practice of companies who have a cash flow panies who have a cash flow problem. This offers the distinct and seductive possibility that PSBR could actually be eliminated altogether, notwithstanding the much higher level of area, the most experienced public sector orientated investment activity that would be

While it might be argued that the adoption of this policy would provide no more than a cosmetic solution, with financial institutions being encouraged to fund tangible assets rather than purrbasing the Government gilts that contribute to their funding as at present, it is

# Letters to the Editor

on interest rates which would be good for both investment and inflation in itself. Nicholas P. Brittain.

Churchfields, Church Lane, Witley, Godalming, Surrey. Taking early

retirement From the Chairman, Superannuation Fund Group,

Kent County Council ...

Sir.-I view with considerable concern reports suggesting that the Chancellor of the Exchequer might introduce taxation changes relating to pension benefits and investments. These reports have referred to the taxation of lump sum benefits on retirement, tha discontinu-ance of tax relief on pension

the average householder. Also, the increases would represent a further imposition on businesses struggling to survive the economic recession. Taxation on this scale would far ontweigh any economies that have been achieved by sound investigation.

ment management.

The taxation of lump sumbenefits would mean that the expectations of existing staff on retirement would not be realised although many have already made adjustments to their standard of living based on these expectations. Without e much clearer statement of senior staff are likely to continue the trend recorded over recent weeks and to opt for early retirement as a pension protection measure. Ending the lax relief on employees contributions. long term intentions in this protection measure. Ending the tax relief on employees' contributions would impact significantly on employees' take bome pay and might give rise to exaggerated pay claims at a time when public sector pay increases are being beld under to exaggerated beld under to exaggerated beld under to exaggerated pay claims at a time when public sector pay increases are being beld under to exaggerated beld under to exaggerate the first below the first bel

likely that a beneficial spin-off strict control. Neither of the could be a dampening influence above consequences can be above consequences can be looked on favourably by any responsible local authority

member.

I would hope that these recent reports prove to be without foundation and that the Government listens to the counsel of those within the pensions industry, before tempering with funding arrangements that bave worked well for many years. (Councillor Sir) John Grugeen. Sand Pett, Charing, Ashford, Kent.

Extending the VAT net

From the Finance Director, London and Leeds Investments. Sir.—I read the leading article

additional taxation burden imposed in the 1984 Finance Act through the phasing out of capital allowance and industrial buildings allowances, will sound the death-knell for construction and development activity in many regions and would stop future projects. As a conse-quence, the already hard-pressed building companies will be forced to lay off workers or face bankruptcy. The redevelopment

of sites in depressed inner city or rural locations, which are mainly tenanted by small businesses, would be shelved and it is in these areas in which e positive VAT charge could reader site values negative. render site values negative.

the decision making process for my industry that the writer sug-

The Government has committed its economic recovery to the creation of new business and new jobs, and this policy Minister in her interview with Sir Alistair Burnett on TV Eye on January 24. The extension of VAT to the building industry at a time when it is recognised that it is just beginning to life itself out of the recession of recent years is hardly a way of demon-strating the Government's commitment to that policy.

A. G. Long. 87, Wimpole Street, W.1.

Accounting for utilities

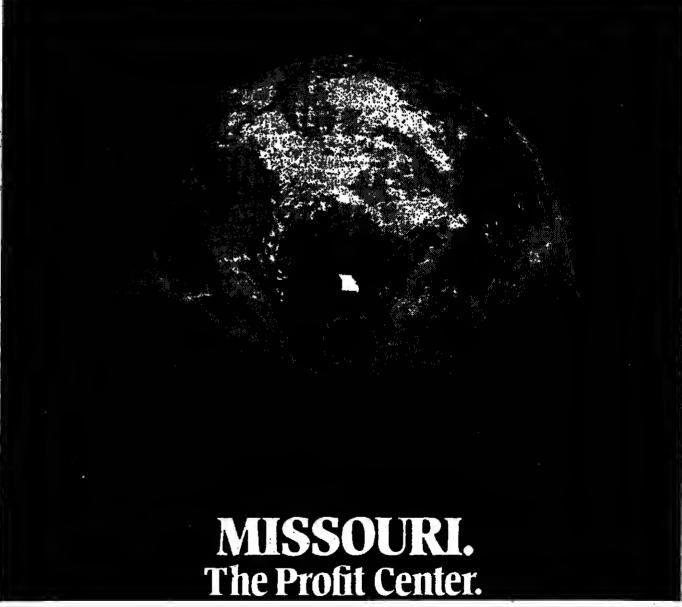
From Mr E. Whiting Sir,-Your article (January 26) asks why the Trensury continues to insist on current cost accounting for public utilities.

It is not in order to make comparisons with quoted com-panies. It is not because replacement cost is a good basis for valuation of reservoirs and sewers. It is not on account of a CCA balance sheet being always available, even when exposure draft 35 proposes abolition (although it advocates retention of other features of CA). It is not due to the likelihood of CCA being adopted throughout industry when only 9 of the 125 official commentators on ED85 were generally in

support of it as an accounting standard. It is because the CCA figure It is because the CCA figure for return on capital employed is e mystical number (like the money supply) which few people can understand, but it looks good. I per cent looks terribly low and 1.9 per cent not much of an increase. 15 not much of an increase: 15 per cent to 29 per cent, how-ever, is staggering; and a tax increase from £400m to £700m is absolutely appalling.
In my view, the use of return

on capital employed for public ntilities is completely mis-guided. Their assets have a very long life; a realistic de preciation policy is difficult to formulate; their plant requires many years to construct; extra plant may be needed for backup, where the private sector can risk the occasional failure. Finance should be releted to the viability of capital projects, not to the historic accounts of past years (they are still historical even on a CCA basis). For a public utility there is

no way of deciding what a reasonable return on capital employed should be. No standard of comparison is available. It should provide an adequate service and make an acceptable operating profit. The assets which it already owns, inherited from many many years ago, have very little relevance.



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Terry Byland on Wall Street

# Static picture for TV

THE major U.S. television network companies have been in the news themselves recently, but not, unfor tunately, in terms of their stock market performance.

After a strong performance in 1984, when media sector stocks in general did very well with gains of 11 per cent to 15 per cent, against virtually nothing on the Standard & Poor's 400 index, the TV stocks have shown little change since the middle of January when the rest of the market took off to new peaks.

Indeed, both CBS and ABC have shaded lower over the period, which has seen a 5 per cent jump in the industrial stock sectors. Some of the reasons are not hard to identify. The latest statistics on television viewing suggest disappointing progress by the three major networks ABC, NCB and CBS.

Only those Americans who rise early in the morning seem to be showing increasing interest in tele vision. Prime-time audiences for the big three networks were 2.9 per cent down at the end of December.

This has had its effect on Wall Street's forecasts of profits for 1985 at the major companies. Most analysts are either non-committal or "neutral" on growth prospects for this year with all agreeing that there will be no repetition of last year's surge in profits as the eco-nomic recovery in the U.S. pushed advertising revenues ahead.

At Goldman Sachs, Ms Randi Murray and Ms Dinese Ellsworth only 5.4 per cent this year, against 31 per cent in 1984 and ABC to add 3 per cent against 21 per cent. Network revenue growth will slow from 14 per cent to about 9 per cent,

TV MARKET SHARE %							
Primetime	1984	1983					
CBS	27	29					
ABC	24	27					
NBC	26	24					

after extracting the effects of the boost from the 1984 Olympics.

Wall Street's stubborn refusal to push the shares higher seems to reflect wider considerations of the outlook for the industry. The national networks are meeting increasing competition from the inde pendent television groups. There are more than 200 independents in the U.S., an increase of 11 per cent in the past 12 months.

They challenge the national networks for advertising in several significant areas, and are likely to increase the pressure. In the first place they can no longer be classed just as local operators. The Association for Independent Television Stations estimates that about one quarter of the money spent on national television advertising goes to independent stations, and yet their local affiliations enable the independents to benefit strongly from local TV advertising, which is growing faster than national advertising.

The tilt towards local advertising reflects shifts in advertising spend ing which are weighted against the major networks. The fastest grow-ing sources of local advertising are, almost incredibly, the fast-food operators to whom the local market is the target. McDonald's, Pillbury (Burger King), Pepsico (Pizza Hut and Taco Bell) and Wendy's are the four largest advertisers on local

Restaurants are the eighth largest advertisers on U.S. television networks - yet do not even figure in the top 25 in the national TV adver-

tising spots.

At the same time some traditional areas of national television advertising are meeting trouble. The beer and wine trade faces a lobby in Washington, reminiscent of that which expugned tobacco adver-tising from the television screens of America nearly 1S years ago.

All these factors have left the TV network stocks vulnerable. In the case of ABC the stock price has been driven higher by takeover hopes, but these seemed to evapo rate a week ago, when the price dipped and huge lines of stock changed hands. At \$64 the stock is selling on about 9.5 times earnings which hardly bears out Wall Street's expectation of slower earn-

ings growth.

ABC admits that its prime-time audience slumped more than 11 per cent last year – the daytime audi-ence fell even more. The viewers seem to have fied to NBC which has the commanding lead in adult

prime-time viewing.
Since NBC belongs to RCA, only CBS is available as an alternative for investors in national network TV groups. CBS is still number one in TV network rankings, but is los-ing viewers in prime-time, daytime and evening at an uncomfortable rate. While its Columbia toys and musical instruments and its record divisions may brighten the picture, it is hard to see how CBS can in-crease television advertising earnings in a difficult climate.

RETURN TO NORMALITY IS AWAITED WITH RELIEF AND APPREHENSION

# Gibraltar's opening night nerves

THE MAIN gates on the Spanish ready to swing open tonight on a co-lony which has become suddenly unsure whether the bad times have ended or are about to begin.

The long-awaited return to normality on the road across the sandy tongue of land that links the Rock with continental Europe is awaited in Gibraltar with a mixture of relief

ement, commented Sir Joshua Hassan, the Chief Minister, taking refuge among the regulars of his local bar the morning after a spirited television confrontation on the issue with Mr Joe Bossano, the leftwing opposition leader.

A campaign against allowing Spaniards working rights on the Rock and against giving Spain any say in Gibraltar's future reached its climax last week when Mr Bossano delivered a letter with more than 9,000 signatures - almost a third of the civilian population - to the Convent, seat of the British Governor.

However, the protagonists of the clash will not be there for the opening. Sir Joshua is due in Gen-eva for the first Anglo-Spanish talks in the framework of last November's breakthrough agreement Maroccan labour on Gibraltar, Mr Bossano, satisfied Rock's workford that he has made his point, is boy-jobs are scarce.

cotting the event. "We do not want ny trouble at the frontier," he said. After more than 20 years of Spanish border restrictions, including 13 of total blockade before Madrid started allowing Spanish and Gibraltarian pedestrians across two years ago, the opening itself is universally welcomed on both sides of the frontier.

Everybody agrees on one thing: we all want the border to open, concurred Mr Juan Carlos Perez, a former storekeeper now a member of Mr Bossano's Gibraltar Socialist Labour Party in the colony's tiny House of Assembly, "But why should we have to give anything in

The objections are not only to the prospect of future sovereignty nego-tiations – which neither the Gibraltar Government nor the opposition wants - but, more immediately, to the "reciprocal rights" which will provide favourable treatment for Spaniards coming to look for jobs.
"Here is a community of 20,000 (the number of British Gibraltar-

ians) extending EEC rights to a community of 37m. said Mr Perez. A large commuting workforce of Spaniards was withdrawn when the Franco regime cut all links in 1969. The gap was filled with imported Maroccan labour - a quarter of the Rock's workforce today - and new

Mr Bossano, 44, a trade unionist, the Taj Mahal and the Bombay is worried less about his transport and general members in the public sector who can defend their UK-level wages, than the less unionised services and commercial sectors. He fears undercutting by labour from the nearby mainland where unemployment is running at one in three and pay, rents, rates and social benefits are much lower.

Gibraltar businesses - a building materials company is one recent example – are already starting to be advertised for sale in Spain. Mr Bossano's other worry is that

Gibraltarians may move their companies to the cheaper side of the order in order to serve both markets, thereby cutting private sector employment in Gibraltar, reducing the usage of the Rock's high-cost public sector utilities and draining its government revenue.
Underlying the opposition cam-

paign is continuing distrust of Spain (many young Gibraltarians have never been to Spain and have no connections there) compounded by growing distrust of Britain's intentions towards the Rock. Mr Bossano warns of "rearguard actions" and "a lot of trouble in the next 12

Tradesmen and hoteliers on both sides of the border are optimistic, however. In Gihraltar's Main Street, hi-fi and gift stores such as

Bazaar have been stocking up for a tourist revival, and the Gibraltan authorities are preparing swingeing

On the Spanish side, Gibraltan housewives pulling their grocery trollies have already been spending in the order of £150,000 (\$168,000) a week since the partial opening of the border.

which grew up around the Spanish military lines after Britain selzed Gibraltar in 1704, suffered worse than Gibraltar from Franco's blockade. Despite heavy emigration it has 7,000 jobless; 14 times as many

Sr Antonio Diaz Lara, the mayor is hoping for a boom in services and supplies. Between 7m and 9m people could be crossing over this year, he claims. The town, which is joining forces with others in the cam-po region including Algeciras. started building a new seafront road to the border two months ago.

Gibraltar residents, who have all ready been buying property in nearby Sotogrande, can now buy homes in the formerly prohibited zone of La Linea. Gibraltarians will now be able to

drive across for the first time since

Howe renews pledge, Page 2

# \$ surge hits hopes of UK rate cut

BY MAX WILKINSON, ECONOMICS CORRESPONDENT, IN LONDON

HOPES on an early cut in UK interest rates were dampened at the weekend after the dollar's surge on Friday to another record level on the New York foreign exchange

The surge to a 12-year peak of DM 3.194 was accompanied by a sharp rise in U.S. interest rates. It will reinforce the caution of the British authorities in their desire to allow UK rates to fall from the present 14 per cent.

That is easily the highest level in real terms - after allowing for current inflation - since the second world war. It represents a serious threat to economic recovery and

Towards the end of last week

wholesale interest rates in London. were signalling a cut of 1 to 11/2 percentage points in bank base rates. Even before the dollar's late surge, however, the authorities were indicating a very cautious attitude to a

The are reluctant to signal any

rapid easing of monetary policy un-til they are confident that the foreign exchange markets are in a eign exchange markets are in a more settled mood, particularly in relation to sterling. They are ex-tremely auxious to avoid having to repeat last Monday's rescue opera-tion, with the risk that interest

rates might be pushed even higher five leading industrial powers, ar

than 14 per cent.

For the time being, they have decided to defend sterling at about its present value of \$1.12, with the Sterling Index (against a trade-weighted basket of currencies) at around 70 to 72 (1975 = 100). Until recently, the Government

was prepared to tolerate a gradual decline in sterling if it reflected "external" causes; the strength of the dollar and weakening oil prices. Now it fears that any further fall of the pound might add to inflationary pressures at a critical time in the wage round.

A continued rise in the dollar this week would test the resolve of the

nounced in Washington last month, to mount a concerted attack on dol-

Mr Nigel Lewson, the British Chancellor of the Exchequer and Mr Robin Leigh-Pemberton, the Governor of the Bank of England, both emphasised last week that they thought the dollar was greatly overvalued. That view is shared by the authorities in all the leading markets, however, have yet to see that conviction by spending their

Britain after 14%, Page 12

countries. The foreign exchange how far they are prepared to back

# China to compete in satellite launching

BY PETER MARSH IN LONDON

CHINA intends to compete with organisations in the U.S. and Western nese rocket sites would be an insufew organisations in the U.S. and 1991 250 satellites will enter orbit, Europe in taking satellites into orbit with rockets, a top Chinese offi-cial said in London at the weekend. Li Xu-e, China's vice-minister of astronautics, said the country

March-3 satellite launcher. Li is the head of a 10-strong delegation of Chinese space engineers and officials who are visiting Brit-ain as part of China's efforts to move closer to Western countries in

companies would be permitted to visit China to inspect launch facilities. He did not think that transport

perable difficulty.

China has launched about 16 sat-

ellites with its own rockets, which are a derivative of the country's ballistic missiles for carrying nuclear warheads. The satellites have all hoped to compete in that area "the quicker the better" using its Long been Chinese vehicles used mainly for military surveillance or scientif-

Li said China hoped to have operational satellites for communica-tions and TV broadcasting in orbit within one to three years. The satelpace technology. He said that Western satellite lites would include craft bought from Western countries as well as those developed by China's industry.
This extension of China's activi-

Europe that offer commercial launch services. The U.S. Government sells

launches on its fleet of space shuttles, while Arianespace, a Paris company takes satellites into orbit with Ariane, the rocket developed by West European governments.

Also in the U.S., Transpace Carri-

ers and General Dynamics are attempting to commercialise the Del-ta, Atlas and Centaur rockets pre-viously operated by the U.S. Gov-The annual world market for

commercial launch services is likely to total S1bn to S2bn within a few years, analysts say. According to

mainly for communications.

China has yet to decide on its fees for using rockets or on marketing arrangements, Li said. It is ready to enter into "general discussions" with Western countries with satel-

The Chinese delegation, which ends its 10-day visit to Britain on Wednesday, last week signed an agreement with the British Government, pledging both countries to cooperation on efforts in space. China has similar agreements with West Germany and Italy.

Ching to spend 51hn on technology imports, Page 3

### Reagan launches drive Buhari holds out hope against overspending

Continued from Page 1

spending itself is running out of

control Even though Congress last year enacted a budget deficit reduction package totalling \$130bn over three years, current Administration foreyears, current Administration fore-casts suggest that if the President's abolish federal subsidies for mass budget cutting proposals for tha 1986 fiscal year are not enacted the deficit will rise from \$223bn this year to \$248bn in 1988, even with the favourable economic assump-

tions it is making.
On the doubtful assumption that the President's proposed cuts of programmes such as social security \$239bn over three years are enact- and defence from the spending ed, the budget deficit in 1986 would remain around the \$180bn level

World Weather

Politicians of both parties on Capitol Hill have already suggested that the President's detailed budget cutting plans – which would curb expenditure on politically sensitive transit and direct loans from the Export-Import Bank to support U.S. trade, and end many federal grants

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to the states - are politically unrealistic. They argue that these proposals are dictated largely by the President's decision to exclude expensive "freeze" and to rule out a general

for civilian rule

Continued from Page 1

vote in a referendum on the type of General Buhari was also critical freedom they would like to see - of Britain's Export Credits Guaran-Then go ahead and hold an elec-tion and form the government." leading role among European credit He had no timetable in mind,

Opec, the general said that the ben-elits outweighed the disadvantages. However, the organisation had to be "realistic" and allow "flexibility" for member countries in financial difficulties, such as Nigeria, he said. Should Britain's North Sea oil prices drop, Nigeria, which earns 95 per cent of its foreign exchange from oil, would follow suit. "We will have to do that to survive," said the

He was critical of Britain's han-dling of the case of Alhaji Dikko, now living in London. An attempt was made last June to kidnap him and return him to Nigeria in a crate marked Diplomatic Eaggage in the hold of a Nigerian Airways aircraft, but Customs officers intervened.

The four alleged kidnappers are due to appear in a British court lat-

er this month.
Nigerlans had been "disappointferent stages, said the general, and Britain was not treating Nigeria with the seriousness that Nigerlans

Last month Nigeria formally applied for Albaji Dikko's extradition. Should the request be specessful, said General Buhari, he would appear before a military tribunal.

tee Department, which is playing a leading role among European credit agencies in insisting that Nigeria bowever, and emphasised that economic reform was the military Government's priority.

On Nigeria's membership of can be rescheduled.

"We expect the ECGD to show more understanding about Nigeria than the rest of our trading partners, and there is no evider that."

Efforts to "pull the country out of the economic mess would take three "very tough" years, the gen-eral said. Bunching of commit-ments on medium-term deht over the period would push up Nigeria's debt service ratio from 44 per cent this year to over 50 per cent by 1987.

This is a critical situation for us and is a clear indication that we have to be very careful about further debts. But General Buhari gave no indication that the gap be-tween Nigeria and the IMF over loan terms had narrowed.

"We need the IMF, there is no doubt about that" said General Bu hari, but he went on to reject two of the fund's main demands: a 50 to 60 per cent devaluation of the naira and a reduction in the subsidy of domestic fuel. Higher prices, includ-ing the cost of food, would be the re-sult, be said.

"We will have the riots that see to signify the arrival of the IMF in most developing countries."

# THE LEX COLUMN

# The 3i turns a deaf ear

Investors in Industry, or 3i as it now likes to be called, has recently been showing all the signs of a company set for flotation: adopting a fashionably meaningless and un-grammatical name, brightening up its image, taking full-page adver-tisements in national newspapers and increasing its dividends

Yet going public is the last thing the company wants. It much prefers the status quo, owned as it is by the Bank of England and the clearing banks. The Reuters saga immediately

springs to mind: A shareholder in eed of cash and a notion of public interest unpopular with the institutions that might be expected to buy In 3i's case Midland is the keen-

est to sell, though it may be joined by the others. At the moment the noney it has tied up in 3i does not figure in its free equity ratio, which it desperately needs to improve. If it could only pull out, the proceeds would go directly into its capital Moreover, whea 3i was set up, the

banks were prepared to commit the equity because its business was complementary to theirs. Now 3i competes with them in most of its fields and has become something of In an ideal world another share-

holder would offer to buy Midland out, and 3i's credit rating, on which it depends for its heavy Euromar-ket borrowing, would be left intact. That looks like wishful thinking since 3i's return on equity is gen-erally even lower than the banks.' Any other route - and in particular a public offering - is likely to dent 31's rating and so raise its cost of funds. Interest payments took a two-thirds slice out of profits last year, so any increase in borrowing costs would hurt earnings, either di-

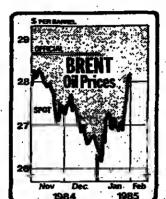
rectly or through 3i becoming less

competitive by passing the extra

cost on to the customer.

The quality of its earnings is anyway quite low, most come from selling equity stakes - the profits on which are geared to the state of the stock market - and much of the rest from margins on loans of a higher than average risk. If 3i were valued on a p/e of 7 in line with the merchant bank average, last year's earnings would capitalise it at just

On an asset basis it looks far more attractive and since much of its business resembles an investment trust, perhaps this should determine its price. Net assets in the last accounts were £238.5m and there are about £270m of unrealised



count to assets the company would be valued at £350m. At this price Midland would receive £63m, still well below the £100m it has appar-

ently been hoping for.

This figure might all the same be optimistic. The Bank of England would presumably like to ensure, perhaps by incorporating condi-tions in the terms of sale, that 3i continues to pump long-term capi-tal into British industry. Not only might these constraints put shareholders off - possible buyers might also be chary about 31's profit poten-tial. It is making money now by selling stakes it acquired cheaply ten years ago when there were few players in the market. Now that competition has increased sellers can bid up the price they charge 3i for their equity. Moreover, 3i's long investment horizons may conflict with the short-term performance demanded by investing institutions. A second-best solution for 3i might be a direct sale of Midland's

holding to an outside institution, while the other banks sat tight. If Midland were to sell, however, it is unlikely that the others would want to stay put. They are not earning an ive return on their assets, let alone a decent dividend. Ideally, perhaps, 3i would put its own ideas to the test and arrange it-

self a management buyout with the aid of friendly institutions. If the banks kept some of their holding, 37s credit rating would be only partly impaired. The clearers could then gear up on the equity they withback to fund the buyout. Meanwhile. 3i could stem its hrain drain by offering higher-flying ex shares of their own.

Oil shares

The pricing of crude oil has be-gun to resemble an exhausting and ing return.

bad-tempered basenne stop be-tween Opec and the British Nation-al Oil Corporation, with the ball now bouncing in BNOC's court. The Government has probably lost hope of assisting North Sea crude out of the pricing limelight for the mo-ment BNOC will have to match Nigeria's \$28.65 for the crude it buys, at least for the month just ended and rely on the recent small rally in spot oil prices to justify it.

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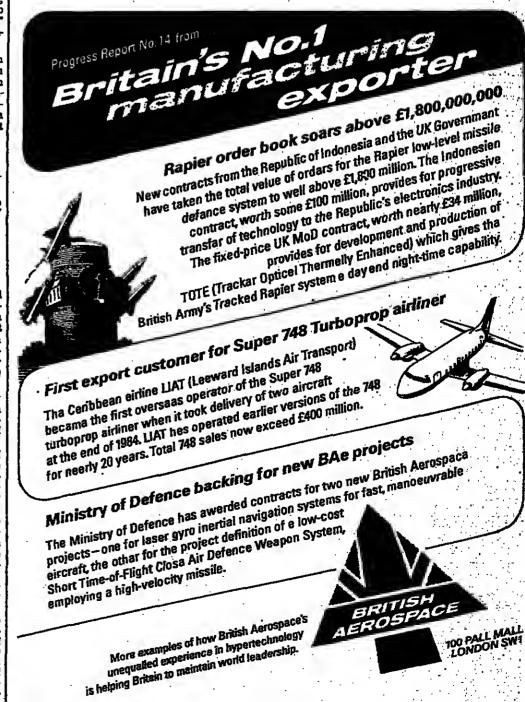
This should be good news for the share prices of North Sea produc-ers, even for those sitting on marginal new production. The sector responded smartly to the result of the Opec meeting - with the FT-A Oils Index easily outperforming the market on the two succeeding days - and investors can look forward to excellent sets of results in March

Amid signs that the worst of the pressure is off the oil price, there is no reason that the shares of the two majors should lack friends. They are trading on their lowest multiples relative to the market for three years. Ex-dividend, and with the arrival (perhaps) of warmer weather, they might look a little less attrac-

As yet there is no hard evidence that the oil companies have reached rock bottom in drawing down their restocking from the second quarter. For the year as a whole, most esti-mates still show demand for Opec oil only slightly above last year's level. Any signs of a weakening in the oil price could remind invest of what sometimes gets lost in the effect of weak sterling on upstream earnings and stock profits; that the ector's price relative to the market shows a close correlation to the dol-lar price of oil.

Admittedly, investors will buy BP for its generous yield and though there are uncertainties as to how the Shell group will manage its dividend adjustment between the two companies, there is no reason at all to believe that Shell Transport and Trading would cut its 1985 dividend.
Meanwhile, U.S. interest in Royal
Dutch since the late autumn has apparently helped to drag up Shell T and T, as it begins to look cheap to drew - and perhaps lend some of it dollar investors in relation to its sis-

> Renewed anxieties about the oil price will, however, tend to discriminate against those exploration and production companies with high gearing, who must watch new pro-jects slide out of reach on the fall-



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# SECTION II - COMPANIES AND MARKETS

# **FINANCIAL TIMES**

Monday February 4 1985



# Portuguese budget approval clears way for \$400m loan

pered baseline of pered and the British and th PORTUGAL'S Parliament last week finally approved the country's controversial 1985 budget, with its record Esc 350bn deficit. This has allowed the Central Bank to begin serious examination of plans for the Republic to raise a \$400m loan abroad, writes Peter Montagnon in

Portuguese officials in a particularly buoyant mood. Not only have they been deluged with offers (including one for a \$400m floating rate note that was turned down), but the country's most recent borrowing, a \$100m equivalent, seven-year credit for Electricidade de Portugal, has been heavily oversubscribed and is to be increased to

Part of the attraction of this deal clearly reflects its generous interest margins, which start at % per cent for the first four years and then fall tage of borrowin to % per cent. Yet the market repaper market. sponse, which elicited no less than sponse, which elicited no less than Elsewhere, renegotiation terms \$197m in syndication, also demon-

This does not, however, necessarshort-term Euronotes and borrow-

Turkey's case highlights plainly for banks to convert all or part of the problems facing lesser-rated their share into a floating rate note borrowers in finding banks willing in which they will act as co-managto underwrite one of the new facili- ers. ties. Although it now appears to be They will be offered this paper at within spitting distance of complet- a yield including commissions of ing an underwriting group, this will some 24 basis points, which is lower have been done only after tough than the loan margin pressure by the borrower, with relationship banks, and with an in made further substantial progress. crease in the facility fee to % per in talks with bankers last week on a

		mover (	(\$m)	ER .	
Prima	ry Meri reights	Conv	FRN	Other	
U.S.S Prev			1152.5	28.1	
Other	1015.8	000.0	000.3	138.5	
Other		0.000		138.5	

U.S.\$ 16269.9 675.2 11914.0 2424.4 Prev 10191.3 497.2 7848.2 1578.6 Other 2311.6 44.7 258.2 1199.7 Prev 1690.5 33.1 333.9 1025.2 Codel Europieer Total U.S.\$ 11354.6 23402.3 34756.9 Prev 7787.5 12899.4 20495.9 Other 3124.0 1844.7 4988.7 Prev 2180.5 1214.1 3394.6

- is that they can offset the advantage of borrowing in the short-term

strates strong appetite for Portu- credit for ENI, Italy's state oil concern, brought to the market last year by Morgan Guaranty. There is ily make it any easier for Portugal to be no change in the maturity, but to set the right terms on its new in exchange for a % per cent renedeal, especially as it encourages the gotiation fee the margin on both the temptation to opt for a cheap, new-shorter and longer tranches is to be style facility involving the sale of cut to % per cent from a split 1/2-1/4. This pricing might appear a little ing through bank advances. Here, tight on the longer tranche of the the flip side of the coin is that the loan, which still has seven years to \$500m advance facility for Turkey run. Moreover, after resistance to continues to meet a sluggish re- one Libor-based renegotiation for sponse, having attracted commit- Enel, the electricity board, last ments totalling only some \$450m by year, ENI has decided to sweeten its proposal with an unusual option

cent from % per cent.

The problem with high facility about \$45.3bn in debt falling due befees – and Portugal would certainly tween now and the end of 1901.

# IBM loses appeal as yield curve flattens

market's favourite borrower - of sue for several years. February got the yield curve was going to flatten. although giving a yield comparison off to a bad start, however, symbol- But not because long rates were to U.S. Treasury securities less ised by IBM's cutting that lasue from \$300m to \$200m, writes Mag-

The uneasiness which had set into the bond market on Thursday. had by Friday become misery. As nisual, the rot that set in spread such a low coupon. A couple of from New York. Sentiment changed weeks earlier, a four-year issue quickly from Wednesday when the U.S. long bond reached 105%, and been sold.

the launch by IBM - perhaps the and a sharply rising Fed funds rate investors. It has been coming to the were to blame. It began to dawn on dealers that

> coming down; short rates were going up.
> And it was the steepness of the yield curve that had encouraged IBM Credit to launch its three-year deal extendible to 15 years, with

market too often to maintain its scarcity value. And the low coupon, tight than some previous issue, was too much of a shock to the retail in-

The decision to cut the size of the issue came not, it seems, from the lead manager, Salomon Brothers, but from IBM Credit itself.

vestors likely to buy the paper.

Even after its size was cut, though, the issue appeared to be in sure if the yield curve flattens signitrouble, trading so far outside fees

AT LEAST the Eurodollar bond market has had one good month this year. January culminated in funding, the money supply figures

This time it was not on. IBM has lost some of the glamour it used to holdings cheaply. On Friday, with the money supply figures have among the archetypal Swiss that it could have been mistaken for a Euroyen issue. "If they had to cut holdings cheaply. On Friday, with the managers to their limit. Last week the D-Manager is a last left alone by

IBM was not alone in bringing a tightly priced deal to the market. Other notable borrowers were Mobil, Eastman Kodak and GMAC.

Successes during the week included the J. P. Morgan issue – with an 11% per cent coupon - and the Citicorp 12 year deal with a ½ point better coupon and point lower issue price, which was doubled in size.

Floaters could also be under preficantly. With a sharply rising yield

holding at good levels on Friday. France set a new low rate for FRN cent. Prices were a little wea yields through a Credit National is-

The Euroyen market once again displayed its taste for over-indulgence – perhaps a habit learned from the feasting the Eurodollar market sometimes goes in for – we have yet to see the famine in Euro-Theo house of a full had them more than the same of the same of

of issues last week tested the lead

Last week the D-Mark market was at last left alone by borrowers That did not upset last week's a welcome relief particularly in a crop of issues, all of which were week when Lombard rate was increased from 5.5 per cent to 6 per over the week, though by Friday

they had stabilised. The Swiss franc market was also a little unsteady last week, although the issues keep coming.

yen, but syndicate managers are starting to sicken. A total of Y125bn ing up again.

EW IN	rerna'	TIONAL :	BOND I	SSUES

Borrowers	Amount Th.	Meterity	Au. Hu years	Coepen %	Price	Lead Monager	Offer yield	Borrowes	Amount m.	Materity	Au, life years	Coupon %	Price	Lead Manager	Offer yiel
W.S. DOLLARS								SWISS FRANCS							
Pasco Corp. 5‡	20	2800	151/2	31/2	100	Mikito Sees (Europe)	3.125	Nat. Patent Dev. Corp. 5	68	1995	_	(6(	•	Bge Gutzwiller, K.S.	
Mitsebishi Boc. Corp. \$2	199	2006	· 15	27/2	180	Daiwe Europe	2.875	Chejitsuya Co. ** 11	48	1990	_	35%	100	Wirtschafts- und Prbk	3.62
Republishank Corp. †(a)‡	150	1997	12	1/≥	106	Salomes Bres.	_	Pasco Corp. \$1	50	1998	_	17/2	100	Bank Julius Beer	1.87
OR & Mat. Gos of Iradia †(b) 1	158	1997	12	1/≥	100	Marrill Lynch	_	Sentes Finance 1	138	1995	_	5%	108	Hundelshank	5.75
Furukawa Electric I	50	1992	7	-11	1901/2	Boo Parihas	10.894	Asian Dev. Bank (b) †	50	2000	_	1/2	180	SBC	
Mitsul Petrochonical T	25	1950	5	(91/2)		Nomera Inc.		Axian Dev. Bank 1	100	1997	_	57/4	180	SBC	5.87
Security Pacific †(c)±	250	1997	. 12 .	V36	190	CSFB	_	Hihon Coment "*	29	1998	_	(5%)	100	UBS	
AMZ Benk ‡	100	1990	5	1134	108	Morgan Stanley	11,258	Mitsui Mining Co. ** ¶	60	1598	_	(334)	•	UBS	
Caticorn 1	209	. 1997	12	1134	9914	Marrill Lynck	11.878	Films **†	25	1992	_	53/4	100	UBS	5.75
EBİ	100	1995	19	11	1001/2	Société Générale	10.979	Chocolay Elec. Par.	108	1993	_	(5%)	-0-	Credit Seisse	
Yesseto Transport 5	40	2800	15	(3)	100	Miko Secs (Europe)	10.075	EIB **1	100	1990	_	51/2	9934	UBS	5.55
Credit National †(d) 1	580	2000	15	0.05	190	CSFB	_	Settsu Paperboard **	198	1990	_	(5%)	30 /4	Credit Seisse	0.00
Mobil Corp 1	208	1990	2	181/4	100	UBS (Secs)	10.250	Mitspi Petrochemical ** \$	58	1990			•	UBS	
Comset 1	100	1995	46	1154	993/4	CSFB (Secs)	11.569		189	(1995)		(2)		Book Hefwane	
Newfoundland ‡		1995	10					Settse Paperhoard			<b>-</b> ·		400		
Man Daniel I	75		19	11%	893/4	CCF	11,418	Toyolm Co. " T	. 59	1990	-	(34/2)	100	SBC	
IBM Credit Corp. (e)	298	1988	3	87/8	100	Salamen Bres.	9.625	Hisamitsu **§	. 40	1996	-	(2(		SBC	
J.P. Morgae ‡	180	1992	7	111/4	1807/4	Merges Guaranty	11.197	Copenhagen Telephone **‡	.00	1991	-	53/4	108	SBC	5.75
Saskatchewan ‡	108	1992	7	1834	108	CSFB	10.75D	Sperry Corp. (f)	109	1995	-	(53/4)	•	UBS	
Nippon Steel ‡	150	1992	7	181/2	109	Yarusichi fut.	10.500	Pepsico Inc. ‡	130	1995	-	51/4	190	Morgan Gty. (Switz)	5.25
Kubota ‡	150	1992	7	183/4	108	Nomera let.	10.750			_					
Kumagai Gomi S	99	2900	15	(31/2)	100	Daiws Europe	•	STERLING							
Skin-Etso Cham, S	38	2886	15	(3)	190	Yamaichi lut.	•	Mineba 11	50	1990	5	2V4	100	Baring Brothers	8.25
Hisshin Stud I	58	1992	7	1934	100	Hemera lot.	10.750	Norsk Hydro 1	50 50	1991	Ď.	115/8	199	Handrus Bank	11.62
First Fed. of Mich. 1	580	2005	28	8	181/2	Box Parities	11.938								
GMAC 1	208	1998	3	10	8.80	Morgan Stanley	10.048	LRE							
Enstman Kodak 🗆	150	1985	18	10%	108	UBS (Secs)	10.375	World Bank 1	190km	1892	7	121/2	981/4	Medichanca	12.894
NEW ZEALAND DOLLARS											_		-		
R.Z. Brownies	. 15-25	. 1991		15%	89%	Bgs Gutzwiller K.B.		GUILDERS	450	4000		_	400		
M.Z. Benneries	15-25	1992	Ž.	15%	983/4	Bge Gutzwiller K.B.	•	Alczo ‡	150	1990	5	7	180	ABN	7.00
CANADIAN DOLLARS	-							ECUs							
	_							Credit de Mard 🕽	48	1991	6	93/4	108	Bos Paribas	9.75
Montreal Urban Cours. ‡	. 75	1995	19	1134	1001/4	Orion Hoyal Bk.	11.706	ABN ‡	108	1992	7	91/2	991/2	ABN	9,60
NESTRALIANI DOLLARS								YEN						<del></del>	
LTCB ‡	85	1992	7	1234	1911/2	LTCB feet.	12.417	Procter & Gamble 1	266n	1992	7	6%	108	Daiwa Europe	5.62
								GMAC ±	25bn	1990	É	61/2	196	Nomera Int.	5.50
D-MARKS								CONT.	266n	1992	-	63/4	100		
		4000	•		445	0 I W I I	4.000	A.C. Permey 1	5bn	1995	6		100	Mikio Secs. (Eur)	5.75
Lingitsuya Co. T	78	1999	5	4	150 '	Bayerische Vereinsbit.		Gabineta da Asca **‡			3	7.3	455	LTCB of Japans	
lajo Paper Co. 17	120	1991	6	31/2	100	WestLB	3.500	FRIMA ‡	50bn	1992	7	67/2	100	Moneure Int.	5.87
Trie-Kennwood 11	196	1990	5	33/4	100	Deutsche Bank	3,750	Victoria Peb, Aeth. 1	30bg	1995	9	6.7	108	Daime Secs.	6,78

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Bank Brussel Lambert N.V.

This announcement appears as a matter of record only



**ESAB AB** 

U.S. \$50,000,000 **Euro-Note Issuance, Short Term Advances and Bills Facility** 

Arranged by

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Svenska Handelsbanken Group

Managing Underwriters

**PKbanken** 

Crédit Lyonnais

Skandinaviska Enskilda Banken

Svenska Handelsbanken Group

Bayerische Vereinsbank International S.A.

Manufacturers Hanover Limited

**Tender Panel Members** 

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**Credit Suisse First Boston Limited** 

**Enskilda Securities Merrill Lynch Capital Markets** 

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**Manufacturers Hanover Limited** 

Svenska international Limited

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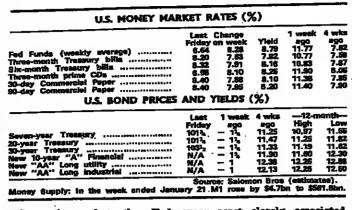
January, 1985

# Fed funds rate rise sends prices tumbling

A WEEK that begun in a mood of considerable optimism on the U.S. credit markets ended on a much less buoyant note. The Federal Funds rate shot up sharply as investors began to look anxiously over their shoulders at the Federal look anxiously over their shoulders at the Federal Reserve Board, and prices across the range of securities tumbled in response.

tumbled in response.

The change in mood is shown by the virtual U-turn made by Dr Henry Kaufman, Salomon Brothers' cief economist who only 10 days ago was telling the financial markets that the Fed would "probably decide to ease very soon." By Friday. Dr very soon." By Friday, Dr Kaufman was demonstrating the hardy old forecasters' maxim that if you have to forecast, you should do it as often as possible. The Fed's curbing effort on bank reserves, he wrote in his reserves, he wrote in his "Comments on Credit," bad resulted last week "in an end to the recent decline in the funds rate, and the probable beginning of a reversal."



Suggestions that the Fed might be shifting away from its with the secommodative policy, recently accommodative approach to monetary growth first began to surface in a report of an interview given by Mr report, the damage had been Preston Martin, the Fed's vice chairman.

Mr Martin, the Fed gov-Mr Martin, the Fed gov- speech

Corrigan, the incoming president of the Federal Reserve Bank of New York, virtually sealed the case for the market Mr Corrigan, who is best known at present as a confi-dante of Mr Psul Volcker, the Fed chairman, said point blank that he believed a strategy of aggressive monetary growth at aggressive monetary growth at present was "simply too risky." Emphasising the con-tinuing dangers of inflation de-spite the present "subdued" inflationary pressures, he added: "There can be no as-

surance that—even now—ag-gressively expansionary monetary policies would translate into higher real economic into higher real economic growth rather than higher prices. Let us also not lose sight of the fact that by historical standards the current rate of inflation is by no means

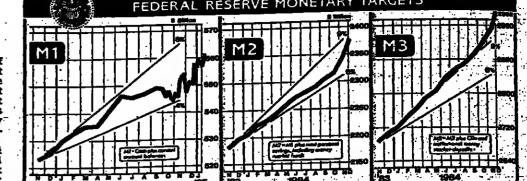
Mr Corrigan also added his voice to Mr Vocker's campaign against the Government borrow-Gerald ing requirement in no uncertain

New York bankers that "nothing looms larger than the need to reduce the budget deficit — another point that struck home in the markets this week when the Treasury announced its quarterly fund-

ing package.

At \$19bn, the programme will be the largest ever launched by the Treasury. It also shook dealers a little by coming out around \$10n more than they had expected, even though the new stripped 30-year bond, which will, in effect, create a zero-coupon security, appeared to be going down well

On the positive side, says Mr David Jones of Aubrey Lanston, the economic figures showed gains in construction spending and new home sales, along with o strong increase in non-farm payrolls. But a more negative FT/AIBD INTERNATIONAL BOND SERVICE



+0% -0% -0% -0% +0% +0%

impression emerged from the December decline in factory orders, the overall index of economic indicators, and the increase in the civilian unemployment rate.

The effect of these uncertainrates sharply, propelled by a Federal Funds rate which many analysts expect to trade in the

Taxas instr 11½ 91 ...... Tokai Asio 12% 91 ...... Tokyo Electric 6½ 88... Tokyo Electric 13% 88 Toronro-Com 12% 88 ...

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Bank of Creece \* 94 150
Bank of Reme York \* 96
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Bank of Reme York \* 98 250
Bank of Paris \* 88 250
Bage Nat Paris \* 98 250
Bage Nat Paris \* 90 100
Bar 18 Paris \* 90 100
Bordeys 0/S \* 90 100
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cent te 84 per cent range. By the end of last week, three-month Treasury bills had shot hack up to 8.20 per cent after trading below 8.0 per cent after trading below 8.0 per cent since the middle of December; and six-month bills hit 8.30 per cent, a point last seen at around the same time in December.

At the longer and of next few weeks in the 84 per ties, the change in sentiment cent te 84 per cent range. By was not quite so marked, partly, the end of last week, three-month Treasury bills had shot the story on inflation; is still hack up to 8.20 per cent after largely positive. As a result trading below 8.6 per cent since the vield on the 20 per cent since the vield on the viel At the longer end of maturi-

**UK GILTS** 

# Waiting for base rates to fall again

IF THE PANIC was overdone so, probably, was the eupheria which fellowed.

Last Monday's spectacular collapse in the gilt-edged market and its equally rapid recovery on Wednesday marked one of the most extraory in a surge evan higher.

episodes in the market's recent Average yields for shertdated stocks, which had started the week at around 11.9 per cent, were within a few hours up to more than 12.5 per cent, and then a day lster back more

or less to where they started. Only the authorities' obvious reluctance to see rates fall too quickly was by Friday preventing the banks from cutting 1 to 11 points from the 14 per cent hase rates they had set

only four days previously. But as traders caught their breath at the end of the week —and the fleetest of foot con-graulated themselves oe the hefty profits made during the market's remarkable turnround —the jedgment of most was fairly sombre.

A commen starting point is that hase rates should come down from 14 per cent once the hurdles of today's official supply figures have been jumped.

And since the suthorities already knew what the figures

The reserve figures will be eagerly scrutinised for clues to just how much the Bank of England has been spending to defend the pound since Mr Nigel Lawson's conversion te the merits of currency interven-

Th problem is that although the Bank has probably been spending significantly more than bas been apparent in the London markets—notably because of some sizeable dollar sales in New York—the reserve figures may not tell the whole

Apart from the usual difficulties in separating the Gevern-ment's routine transactions from intervention, the gossip in the Treasury is that great care has been taken to ensure that the impact on the reserves of dollar sales will spread over several menths.

even harder to predict, with the usual margins of error accentu-

The rough concensus, however, is that growth in sterling.

M3 should be between 2 and 1 per cent, with buoyant bank lending off-setting in part at least the heavy tax inflows to the Evolution. after a probable fall this week, base rates will stick above 12

outside its 6 to 10 per cent tar-get range, but on most econo-mists' judgment could hardly justify 14 per cent base rates. market over the short-term may The problem for the giltedged market is that short-term interest rates would have to fall fairly rapidly to justify the presen structure of yields for

short-dated maturities, Most brokers believe that current yields are discounting at least a fall to 12 per cent base rates and p-obably something

The dellar's performance on Friday, however, and some week's OPEC oil price deal high-light the risks for the authori-ties in letting rates fall too quickly if Mrs Thatcher's \$1.10 target is to be defended.

Mr Lawson's week of penitent speech-making also suggests that the Government will be erring oe the side of caution, ated by the Bank's practice ef not giving advance netice of the seasonal adjustment for monetary policy is a confidence-

building tactic and how far a real switch in policy. The conclusion drawn by some economists, including Mr Malcolm Roberts at Laing and Cruickshank therefore is that,

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That would push the measure per cent for some time.

On that basis, many other hrokers believe, scope for odvances in the gilt-edged well he limited to longer-dated maturities, where average yields now stand st around 11.5 per cent fer 15-year and 10.8 per cent for 25-year stocks.

In the meantims the anthori-

ties will be looking to keep up the funding momentum to en-sure that the February money supply figures, published early next menth, provide a suitable backdrop to the Budget. On that score they will have been helped by the recent steady

sales of index-linked stocks and the massive take-up of certificates of tax deposit If the money supply figures on Tuesday do bring a pleasant surprise, the Bank will be standing by with the £200m. of 101 per cent Treasury 1989, £200m ef 12 per cent Treasury 1995 and £100m of 101 Conversion 1999 issued on Wednesday.

Philip Stephens

NEW ISSUE

These securities having been sold, this announcement appears as a matter of record only.

Japanese Yen 25,000,000,000

# Student Loan Marketing Association

# SallieMae

65/8% Notes due 1992

Issue Price 99%%

**IBJ** International Limited

Merrill Lynch Capital Markets

Credit Suisse First Boston Limited Daiwa Europe Limited Deutsche Bank Aktiengesellschaft Morgan Stanley International Morgan Guaranty Ltd Goldman Sachs International Corp. Salomon Brothers International Nomura International Limited The Nikko Securities Co., Yamaichi International (Europe) Limited

Algemene Bank Nederland N.V. Bank of Tokyo International Bankers Trust International Banque Bruxelles Lambert S.A.

BankAmerica Capital Markets Group-

Banque Paribas Capital Markets Commerzbank Aktiengesellschaft **County Bank Limited** 

Citicorp International Bank Crédit Commercial de France

Dai-Ichi Kangyo International Credit Lyonnais Kredietbank International Group

Kleinwort, Benson Limited Lehman Brothers International Manufacturers Hanover Limited

LTCB International Limited Mitsubishi Finance International

Mitsubishi Trust & Banking Corporation

Mitsui Trust Bank New Japan Securities Europe Orion Royal Bank Limited

Samuel Montagu & Co. Limited Swiss Bank Corporation International Société Générale de Banque S.A. S. G. Warburg & Co. Ltd.

Yasuda Trust Europe Limited

JANUARY 1985

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**Seandinavian** 

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BANQUE

# INTERNATIONAL CAPITAL MARKETS AND COMPANIES

cast to grow by nearly a quarter to \$19.4bn in 1987. Capital spending, which averaged \$1.8bn

a year in the five years to 1983, is scheduled to everage \$1.4bn

e year over the next three years

and the company is hoping to limit the decline in its 1bn

barrels of crude oil reserves to

between 5 and 10 per cent per

The key assumption under-

lying its post recapitalisation

business forecasts is a modest

\$1 a barrel rise in the price of Arabian light oil to \$28 between now and 1987. If the price of oil were to collapse to \$20 per

barrel, the company would be forced to omit its \$2.40 per share

funds are forecast to shrink from \$6.6bn to \$2.6bn, while long-term debt will rise by close to \$3bn to \$5.7bn. Following the recapitalisation there will

be around 100m Phillips com-

mon shares ontstanding com

In the first year, shareholders'

CORPORATE FINANCE

Mary 4 1985

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Terry Dodsword

# Phillips struggles to convince its shareholders | Continental Illinois begins

T. BOONE PICKENS, the bete institutional shareholders, not a sweetener they have been next year before recovering earnings per share of \$5.26 in surprised that Phillips bolders, do not understand the share promised the equivalent of sharply in 1987.

1. BOONE PICKENS, the bete institutional shareholders, not a sweetener they have been next year before recovering earnings per share of \$5.26 in 1984 is forecast to rise steadily bolders, do not understand the \$4.17 per share (pre-recapitali-Although the company to \$8.00 per share of \$5.26 in 1984 is forecast to rise steadily bolders, do not understand the \$4.17 per share (pre-recapitali-Although the company to \$8.00 per share of \$5.26 in 1984 is forecast to rise steadily bolders, do not understand the \$4.17 per share (pre-recapitali-Although the company to \$8.00 per share of \$5.26 in 1984 is forecast to rise steadily bolders, do not understand the \$4.17 per share (pre-recapitali-Although the company to \$8.00 per share of \$5.26 in 1984 is forecast to rise steadily bolders, do not understand the \$4.17 per share (pre-recapitali-Although the company to \$8.00 per share of \$5.26 in 1984 is forecast to rise steadily bolders, do not understand the \$4.17 per share (pre-recapitali-Although the company to \$8.00 per share of \$5.26 in 1984 is forecast to rise steadily bolders. petroleum's controversial recapitalisation plan, which his plan. If approved on February 22, it will transform a safe, if unexciting, oil company into one whose balance sheet ratios been "misunderstood" by the will match those of more application players in the game.

Indeed, Phillips's 218-page proxy statement, which was sent to sharebolders over the weekend notes that the irrepressible Mr Pickens was so upset by the bad press the recapitalisation plan was getting, that he wrote to Phillips, offering to "coperate" in finding an alternative solution to the company's speculative players in the game. It will be a company which could run into serious financial problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already downgraded Phillips paper because its "flexibility will be severely impaired for the next few years" as it concentrates at the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already severely impaired for the next few years" as it concentrates are problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. The credit rating agencies have already of the problems if interest rates were to rise, or oil prices to fall, much further. Indeed, Phillips's 218-page ative solution to the company's on generating cash to reduce problems, such as a \$8.2bn debt. everaged buyout at \$53 per

sbare. Given that he and his partners had already been promised \$470m casb in the hand, assuring them a \$80m

Scandinavian

share capital

THE FIVE Nordic bank ahare-holders of Scandinavian Bank,

the London consortium, have

subscribed an additional £12m.

raising its share capital by 23

per cent to £64.4m to boost the

bank'a capital base. The bank today reports a 19

per cent increase in pre-tax profits to £12.1m thanks to

higher net interest income, and

Another factor was the improved profitability of Banque

Scandinave en Suisse, the bank's Swiss subsidiary in Mr Garrett Bouton, the chief

executive, said that Scan-dinavian Bank, which ranks among the 20 largest in the

foreign exchanga profits.

Bank raises

By David Lascelles, Banking Correspondent

hand, assuring them a \$80m profit on their 5.7 per cent stake in Phillips whatever happens, the offer (which was refused) was another irritating reminder to Phillips's embattled board that it faces an uphill struggle to convince share.

Employee Struck Plan (ESOP). When taken together with planned changes to all intents and purposes will be protected from unfriendly takeover bids.

Unlike Mr Pickens and his friends, who will get cash for the struggle to convince share Unlike Mr Pickens and his bolders that the complex friends, who will get cash for recapitalisation plan is in their their stake other sharebolders

speculative players in the game.

Phillips' workforce, which owns just under 10 per cent of the company, will end up owning between 32 and 42 p r-cent through a newly created Employee Stock Ownersbip Plan (ESOP). When taken

BY OUR NEW YORK STAFF

AMERADA HESS, the secretive

lowed the announcement of swin-

tion rose \$14.2m to \$285.7m. In the

year-ago quarter there was a profit

of \$57m, or 68 cents a share.

sation) in dividends and income reaffirms its plan to sell off in 1985, compared with Phillips' annual dividend of \$2.40. \$2bn in assets in the first year and cut its costs by up to 15 per cent, its revenues are fore-

Phillips advisers say the deal values its shares at approximately \$53. However, the shares are currently trading at under \$48 and several analysts believe that they are worth no more than \$40 to \$45 after the deal. This compares with over \$80 per share which several analysts believe the company would be worth if it were liquidated. Phillips says the recapitali-sation plan has been designed

to afford its shareholders a "substantial premium" over prevailing market prices for a significant portion of their shares, while at the same time allowing them to retain a major equity interest in a company which "will continue to have a bright future and a leadership role in the oil and gas

Phillips' latest proxy statement challenges the view held in some quarters that the plan will completely emasculate the company. The 1984 net income est interests. will get \$3.5bn of paper, the of \$810m, is forecast to decline Many of the company's major value of which is uncertain. As to \$713m in 1985 and \$675m

Croix refinery in the U.S. Virgin Is-

In addition, the company is cut-

ting its workforce by 900, or more

than 10 per cent, with the cuts be-

Management will have its work cut out over the next fort night trying to convince the nervous institutions that their investment in Phillips after the recapitalisation is not such a high risk gamble as some oil analysts are arguing.

Phillips' problems are made
no easier by the fact that several

of Wall Street'a best-known arbitrageurs are known to be nursing beavy losses on the Investments they made in the company when Mr Pickens was promising them \$60 per share. Some are known to be very unhappy about the recapitalisation

It is far from certain that the plan will carry the day. Many of the boys on Wall Street are still boping that a "White Knight" might appear between now and February 22 to take Phillips off their hands or else that it will be forced into liquidation. Unfortunately for them, their former bero, Mr Pickens, bas already cashed in bis chips. Someone else will bave to take up the running.

William Hall

# Amerada Hess reports \$4m loss

The company, which showed a ing concentrated in the refining and By Our New York Staff Amerada Hess is also cutting its 1985 capital spending by more than

The company says that it will supply its customers by purchasing additional domestic and imported to 15 per cent.
Taft is buying the five TV refined petroleum products in the open market as long as it is more economic to purchase such products than to manufacture them. FM radio stations.
Taft currently owns seven
TV atalions and 13 radio sta-

### **Gulf Broadcast** sells stations to Taft

TAFT BROADCASTING, the Cincinnati-based media group, is buying a dozen TV and radio stations for \$755m in a move which will increase its ahare of the U.S. TV audience from 9

and seven radio atations from the Dallas-based Gulf Broadcast, which on Friday an-nounced a plan of complete liquidation. Taft also bas an op-tion to purchase Gulf's TV station in Phoenix, Arizona, for \$250m cash, and is continuing to negotiate the purchase of Gulf's real estate boldings in the Dallas-Fort Worth area. Under recently announced changes in Federal Communications Commission regulations, U.S. broadcasting companies will be allowed to own up to 12 TV stations and 12 AM and 12 INTERNATIONAL APPOINTMENTS

# to rebuild its board

BY WELLAM HALL IN NEW YORK

twelfth biggest banking group is returning.

Mr Richard B. Ogilvie, a former Governor of Illinois, nd Mr Francis E. Ferguson. the former chairman of North-western Mutual Life Insurance Company of Milwaukee, have been elected to the board of Continental Illinois Corporation and its main subsidiary, Con-

CONTINENTAL ILLINOIS, the old Mr Ferguson, are the first been the target of numerous big Chicago bank which was new appointments to the board sbarebolder lawsuits charging rescued by U.S. bank regulators since the new management team negligence and several of the national confidence in America's mer. Their job bas been made

> In common with many big banks, Continental Illinois' board of directors bas numbered many of Chicago's most prestigeous business leaders,

after losing \$1.1bn in 1984, bas begun to rebuild its board of directors amid signs that infer-Bill Ogden were brought in by be known that they were not U.S. bank regulators last sumat all happy at their treatment mer. Their job bas been made by the FDIC. This is underdifficult since the Federal slood to bave discouraged Deposit Insurance Corporation, some of their would be re-

which masterminded the partial bas bail-out of Continental, bas insisted that the bulk of the old ney, was elected Governor of Illinois in 1968. He is a particular chicago law firm. ner in the Chicago law firm, Isham, Lincoln & Beale and chairman of its managing

council.

Mr Ferguson, who took over as chief executive of tinental Illinols National Bank and Trust Company.

The election of the 61-year-old Mr Ogilvie, and the 63-year-old bank and the continental's old board has tinues to alt on the board.

# Control Data peripherals chief

BY LOUISE KEHOE IN SAN FRANCISCO

IN A SHAKE-UP of its peri-Brown as peripherals president with Mr Lawrence Perlman, formerly president of CDC'a financial and business services given a new post as executive vice president in charge of peripherals marketing

CDC pherals company management, changes and increased cost reduction in 1983. Last year it CONTROL DATA CORPORA- competition in the peripherals withdrew from the IBM-com-CONTROL DATA CORPORACOMPETITION has replaced Mr Gordon industry required greater patible large disc drive business emphasis on marketing and planning. Over the past two years, CDC's perbipberal operations have encountered several problems. It plans to offer a "Micro-Winchester" disc drive for personal computers faltered when the company withdrew its

of its parent, Cheung Kong Holdings. Mr Charles Lee and

said technological product for redesign and cost after the development of its latest product fell two years behind schedule. hundred workers were laid off. Then late last year CDC stopped production of personal computer floppy disc drives at its Oklahoma City plant, moving all production offshore.

# Wholesale reshuffle for **Hong Kong Electric**

Mr Slmon Murray, who is the daputy chairman will be Mr chief executive of HUTCHISON George Magnus, who is a board WHAMPOA, the Hong Kong member both of Hutchison, and trading, properties and shipping of its parent, Cheung Kong group, bas been appointed chairman of HONG KONG ELECTRIC, the smaller of Hong Kong's two electricity

generating companies.

The appointment, which is will Mr William Shurniak, part of a wholesale board reshuffle, follows the recent sale by HONGKONG LAND of as group managing director tts controlling 33.8 per cent after 20 years with Electric, stake in Hong Kong Electric He will be succeeded by Mr to Hutchison Whampoa for a S. L. Chen Shaolin, who is price of KH\$2.9bn (US\$372m). currently the group general Hong Kong Electric's new manager.

**Promotion** for Thierry at BBL

By Paul Cheeseright in Brussels

Mr Jacques Thierry is stepping up from president to chairman at BANQUE BRUXELLES LAM-BERT, Belgium's second largest commercial bank.

directors of Hutchison Wham-poa, will also be joining the The appointment, and others consequent npon it, comes into effect a year hence, but the announcements have been made to curtail speculation and instability as the bank seeks a wider international role Mr John Dils, the deputy of Mr Thierry, who bas been in charge of loans and BBL operations in northern Belgium, is stepping up to president.

JANUARY 1985

France launches FFr15bn bond issue

dinavian Bank, which ranks among the 20 largest in the UK, had to transfer £11.9m from reserves to meet a deferred tax liability arising from the tax changes in last year's bndget. He said the bank is planning to boost its investment management and investment management and investment management and investment management and investment investment investment investment investment investment in the involves a 12-year floating rate security with a 10.5 per cent coupon for the first state bond issue of the year involves two tranches. The first consists of a seven-investment management and investment involves a 12-year floating rate security with a 10.5 per cent coupon for the first state bond issue of the year involves two tranches. The first consists of a seven-investment management and involves a 12-year floating rate security with a 10.5 per cent coupon for the first state bond issue of the year involves two tranches. The French govarnment raised FF 85bn in new long-investment management and or 3 per cent of gross domestic per fixed-interest security relative for a further seven about 60 per cent of its deficit.

marketing activities.

a quarter to \$650m.

NEWISSUE

These Securities having been sold, this announcement appears as a matter of record only.

Bank of Tokyo (Curação) Holding N.V.

(Incorporated with limited liability in the Netherlands Antilles)

U.S. \$100,000,000



125/8% Guaranteed Bonds Due 1992

and

100,000 Warrants to Purchase U.S. \$100,000,000 12%% Guaranteed Bonds Due 1992

Unconditionally guaranteed by

The Bank of Tokyo, Ltd. (Incorporated with limited liability in Japan)

**Morgan Stanley International** 

**Credit Suisse First Boston Limited** 

**Bank of Tokyo International Limited** 

**Morgan Guaranty Ltd** 

Algemene Bank Nederland N.V.

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S. G. Warburg & Co. Ltd.

Banque Bruxelles Lambert S.A.

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Chase Manhattan Capital Markets Group

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County Bank Limited

Crédit Commercial de France

Crédit Lyonnais

Daiwa Europe Limited

Den norske Creditbank

**Deutsche Bank Aktiengesellschaft** 

Dresdner Bank Aktiengesellschaft

Goldman Sachs International Corp.

Samuel Montagu & Co. Limited

**Nomura International Limited** 

Orion Royal Bank Limited

Salomon Brothers International Limited

Lloyds Bank International Limited

Svenska Handelsbanken Group

**Swiss Bank Corporation International Limited** 

Union Bank of Switzerland (Securities) Limited

Westdeutsche Landesbank Girozentrale

U.S. oil company headed by the 70-year-old Leon Hess, has reported a sam fourth quarter loss. This fol-cut the refinery runs at its huge St

Full-year earnings fell 17 per cent to \$170.5m or \$2.01 per share. Earnings from production and transfer and



**Can.** \$75,000,000

1114% Guaranteed Notes Due 1990 and 50,000 Warrants to Subscribe U.S. \$50,000,000 11 % Guaranteed Notes Due 1992

both series of Notes unconditionally guaranteed as to payment of principal, premium (if any) and interest by

# The Long-Term Credit Bank of Japan, Limited

LTCB INTERNATIONAL LIMITED WOOD GUNDY INC.

MORGAN GUARANTY LTD DOMINION SECURITIES PITFIELD LIMITED

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MANUFACTURERS HANOVER LIMITED

MOBGAN STANLEY INTERNATIONAL NOMURA INTERNATIONAL LIMITED ORION ROYAL BANK LIMITED

SALOMON BROTHERS INTERNATIONAL LIMITED Société Générale de Banque S.A.

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The Long-Term Credit Bank of Japan Finance N.V.

WILD!

RENDO

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Keynes

FIXED INTEREST STOCKS

"RIGHTS" OFFERS

Bairstow Eyes 5p. . Burgess Prods...... Cartion Comms.....

PENDING DIVIDENDS

statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's announcements except where the forthcoming board meetings (indicated thus\*) have been officially notified. Dividends to be declared will not necessarily be at the amounts in the column headed "Announcement last year."

Dates when some of the more important company dividend

Peachey Prop...Feb 19
Philips Lamps...Mar 8
Provident

Ransome Sims & Jefferies... Mer 5 Final 10.0 Royal Insca ... Mer 4 Final 16.0

Vickere .....Fab 27 Final 5.0

Securicor ......Feb 13 Final 1.0
Sime Gerby ....Mar 3 leterim 4 seath 10 Final 20.29

Finance...Feb 14 Final 1.875 \* Board meeting intimated. † Right issue eince made. † Tax free. § Scri-issue eince made. ¶ Forecast.

EQUITIES

# London listing puts £85m value on Berkeley Tech.

co-ordinator of development capital acting between non-U.S. institutional investors and U.S. high technology companies, is coming to the London Stock Exchange.

Exchange.

Merchant banker Kleinwort,
Benson is offering for sale
3-25m Berkeley shares at 150p
each, capitalising the whole group
at £84.6m. That includes 27.25m
new shares to raise \$44m (£39m)
for the company, with the balance of 6m shares being sold by
Mr Arthur Trueger, the chairman, and TR Technology, an
investment trust managed by
Touche Remnant.

Mr Trueger will raise £5.4m from the sale of his shares, leaving him with o 24.6 per cent stake in the equity, while TR Technology will collect £3.6m, leaving it with a 16.4 per cent interest. Most of Berkeley's income np till now has been derived from fees from arranging development capital finance. It plans to use the offer money to make investments in its own right, so that it will collect capital gains to complement the fee earnings.

In the year to last October, Berkeley completed 27 transac-tions involving investments of \$100m, o figure it expects to rise \$100m, o figure it expects to rise to ot least \$110m in the current year. The group intends to participate in investments of up to \$20m if it beats its \$110m target in 1985. Its strategy is to arrange investments in groups which are in their last round of financing before a public flotation or an outright sale.

Berkeley was founded es financial consultancy in 1977, since when it has arranged \$221m of development finance, consisting of 65 developments in

Polly Peck International PLC, 81/91 Commercial Road,

London El 1RD.

Company Announcements Office,

The Stock Exchange, Throgmorion Street,

London EC2P2BT,

(until 6th February, 1985 only).

**Credit Suisse First Boston Limited** 

Fuji International Finance Limited

Algemene Bank Nederland N.V.

The Nikko Securities Co., (Europe) Ltd.

Salomon Brothers International Limited

The Taiyo Kobe Bank (Luxembourg) S.A.

**Daiwa Europe Limited** 

Morgan Guaranty Ltd

December 1984.

### **BOARD MEETINGS**

The tollowing companies have extilled
dates of board meetings to the Stock
Exchange, Such meetings are usually
held for the purposes of considering
dividends. Official Indications om est
evallable se to whether the dividende
em interime or finels and the aub-
divisions shown below em based
meinly on lest year's timetable.
TODAY
Interior Herricage Ready Manne

recent restructuring, but pro-That puts the offer for sale priceon a multiple of 15.7, with the yield ot 4 per cent, based on a forecast gross dividend of

Applications must be received by Thursday, and dealings are expected to open e week later

a balance between o merchant bank type operation with a more or less steady stream of fee income and a U.S. high technology development capital fund, with the prospect of collecting capital gains in exchange for taking a risk. The letter is a difficult concept to sell just now, in view of the number of investors who have burned their fingers on small U.S. electronic restors who have ourned their fingers on small U.S. electronic stocks in the past year or so, due to a mixture of earlier over-enthusiasm and industry prob-

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Council of The Stock Exchange. It does not constitute an

invitation to the public to subscribe for or purchase any securities.

POLLY PECK INTERNATIONAL PLC

(Registered in England No. 630879)

ISSUE

of £42,679,598 nominal of 9 per cent.

convertible unsecured loan stock 2003/08,

This advertisement appears in connection with the issue of £42,679,598 nominal of 9 per cent convertible unsecured loan stock 2003/08.

("Convertible Stock") pursuant to a rights issue by Polly Peck International PLC. The Convertible Slock has been admitted to the Official List by the

· Council of The Stock Exchange.

Copies of the listing particulars published in connection with the Issue

and containing particulars of the Convertible Stock are available in the Extel Statistical Services and copies of the listing particulars may be obtained

during normal business hours on any weekday, except Saturdays,

N. M. Rothschild & Sons Limited,

New Court,

St. Swithin's Lane,

London EC4P4DU.

L. Messel & Co., 1 Finsbury Avenue

London EC2M 2QE

This announcement appears as a matter of record only.

**Marubeni** Corporation

**U.S.\$100,000,000** 113/8 per cent. Guaranteed Notes 1991

The Notes will be unconditionally and irrevocably guaranteed by The Fuji Bank, Limited

Issue Price 100 per cent.

Yamaichi International (Enrope) Limited

Union Bank of Switzerland (Securities) Limited

4th February, 1985

FUTURE DATES	
Interiors: Ariel Industries	Feb 13 Feb 5 Mer 11 Feb 8 Feb 7
Finals: Appledore (A. & P.) Sumetax Hongkong & Shenghel Sky Nawmee Taeks FLM AB Securicor Security Services Webber Electro Components	Feb 11 Mer 1 Mer 12 Feb 8 Feb 12 Feb 13 Feb 13 Feb 8

traded on the stock market for at least 10 years.

Morgan Grenfell, BTR's merchant bank, described Dunlop's plan to modify the refinancing package as o distraction from the main issue. It said this was en attempt to delay the refinancing beyond the maximum 60-day period for which BTR's offer could remain open.

The bank also defended the use of 14p as a fair price for Dunlop's shares in the BTR offer document. This had been criticised by Dunlop and by the riticised by Dunlop and by the

lop, but its offer terms would give Dunlop shareholders a stake of only 1 per cent in BTR's equity. The refinancing will require the issue of 800m new

require the issue of soum new ordinary shares in addition to the 144m already in existence. Sir Michael argued that the BTR offer of nearly 22p in shares or 20p cash was lower than any price at which Dunlop bod traded on the stock market for at least 10 years.

**Edwardes** 

tries to

thwart

preference shares.

**BTR** bid

This was the price et which Dunlop's banks had agreed to Duniop's banks had agreed to convert their debt to equity, the price at which institutions were prepared to subscribe for new shares and the price at which Sir Micheel and his fellow directors had originally planned to take up share options, Morgan Grenfell said.

Grenfell said.

In a separate development,
Dunlop said it had almost perfected e tyre making process
which made it economic to produce tyres in plant with o weekly
capacity of just 10,000 tyres. The
present minimum capacity is
35,000 tyres a week.

Dunlop may use the process
on its own overseas tyre factory

on its own overseas tyre factory or sell it to other manufacturers. Smaller tyre factories could belp solve the continuing problem of over-capacity in the industry.

### S. Jerome

than adequote.

As agreed by the ouditors, the over-provision of £175,000 will be included in the accounts for 1984.

Based on FT Index 972-976 (-4) Tel: 01-427 4411

LADBROKE INDEX

Changes in company share stakes announced over the past A. G. Stanley—Berger Group purchased 250,000 shares and now bolds 23.8 per cent. Whittington Engineering

Moss Bros—As a result of a recent purchase, the Merchant Navy Officers' Pension Fund is now beneficial owner of \$75,000 ordinary sbares (12.39 per cent).

Winterbottom Energy Trust—The Mutual Shares Corporation

15 St. James's Square, SW1Y 4LQ 01-930 5474

Executive Investment Pension Plan			
	Bld	Offer	Change .
Cash Fund		121.0	1 -
Mixed Fund			- 4.1
Timed Interest Trees	149,0	152.7	/ <b>- 9.1</b>
Fixed Interest Fund	115.8	121.9	I <b>– 1.8</b>
UK Equity Fund	158.7	167.1	- 1.8 - 8.6
Property Fund	112.3	118.3	+ 0.1
Overseas Fund	160 4	177.3	+ 4.9
Index 7 inted Total	100.3		
Index Linked Fund	2,68	104.8	<b>– 1.6</b>
Stock Exchange Fund	118.0	124.3	- 3.1
North American Fund	111.1	117.0	+ 2.9
Far East Fund	104.0	110.5	
Special Situotions Fund	1050	111.5	
-			+ 0.8
Prices January 30 Unit dealin	PE OT T	Wednesd	lav

<del></del>			_
Cierical Medical Managed Funds Lim	lted		
	Bld	Offer	Change
Cash Fund	141.6	141.6	+ 0.1
Mixed Fund	210.4	215.7	
Fixed Interest Fund	161.7	184.4	<b>– 2.6</b>
UK Equity Fund	232.1	239.1	-12.2
Property Fund	128.3 249.5	134.1	+ 0.1
Index Linked Fund	219.5	262.0	+ 7.2
Stock Exchange Fund	114.0	114.5 124.6	- 1.7
Stock Exchange Fund	141.0	124.0	- 3.2

Prices January 30 Unit deolings on Wedgesday

Initial untt prices evalleble on request, telephono 0272 290566

# Lloyds Bank Intl. launches specialised West German trust

THE GERMAN Smaller Companies Investment Trust, which is due to be launched this week by Lloyds Bank International, marks a new stage in the development of specialised investment trusts.

Lloyds Bank International has the shares in

several unit trusts.

The fund managers do not intend to use their powers to borrows funds nor do they intend to bedge the currency risk. They believe that the Deutschemark is likely to appreciate in value against the round.

ing those traded on the over-the-counter market. The portfolio is expected to be fairly concen-trated, containing perhaps as little as 20 different stocks. Until o sufficient number of targets are identified amongst smaller companies, some of the money raised will be invested in

### larger West German companies comment

The issue of more investment funds and their persistently depressed share prices. The large discounts of share price to net asset value is a fate from which even the specialist trusts which even the specialist trusts covering energy, commodities and Japan have not escaped m recent years. Cynics may recall the spote of European trusts which were launched to mark the UK's accession to the Common Market, of which today only one survives. But this trust goes well beyond any previous degree of specialisation and the managers intend specifically to avoid the large German companies that feature in the portfolios of many institutional fund managers. The West German stock and over-the-counter stock and over-the-counter markets have started showing signs of life over the last two years with 32 new company flotations. The ratio of stock risk. They believe that the Deutschemark is likely to appreciate in value against the pound.

The managers' policy will be to invest in small and medium-sized German companies, includ
finited to neede the currency floations. The ratio of stock markst capitalisation to GNP in West Germany remains one of the lowest in the capitalist world, so in theory there will be ample potential for a specialist fund management sub-contractor to the institutions.

Harrisons & Crosfield the plan- per tation, commodity and industrial combine, has approached Pauls, the manufacturer and distributor of malt and animal feeds, with

to the move and yesterday issued a stotement through its financial odvisors Schroders which says it will "strenuously seek to main-tain the company's independ-

ence."
The board believes that inde-

pendence is in the best interest of sharebolders and employees.

Pauls, formerly Pauls & Whites, has been diversifying oway from its traditional businesses in an attempt to overcome its recent dull profits performing to the state of the st ance. In May is acquired Telford Foods which makes muestl, packet soups and sauce mixes for own brand retailing, for £8.5m and has said it will concentrate its long-term expansion plans on the flavours, fragran-ces and human foods businesses

# COMPANY NEWS IN BRIEF

Gammen (Heng Kong), owned jointly by Trafalgar House and Jardine Matheson, has agreed to acquire the remaining 50 per cent sharebolding in Gammon Building Construction, beld by Swire Properties, At the comple-tion of the transaction Gammon. (Hong Kong) will own the whole of the capital of Gammon Build-

tion which the firm of stockbrokers is setting up.

Mr Graham Ferguson, a
partner of Wedd, said they would
be sorry to see Mr Hughes go,
but that be was not crucial to
the business. "It is o bit of e
jungle at the moment, and we
have taken people off others
too," be said.

\* \* \*

Nova (Jersey) Knit, manufac-

Turnover was £4.17m (£4.44m) generating trading profits of £201,000 (£52.000) before excep-

Net asser value per ordinary 25p share of Cambrian and General Securities stood at 123.73p at end-December 1984, compared with 67,88p a year earlier, and an adjusted 125,11p at end-September 1984. The corresponding value of its 7‡p capital share were 159,32p, 55,38p and 162,65p respectively. Mr Ivan F. Boesky, the chairman, anticipates a continued

man, anticipates a continued favourable investment climate for the company's activities in 1985, and that the expanded capital base will afford additional opportunities for growth.

The capital programme announced in October to raise £19.8m net of equity, and \$117m £103.86m) of long-term debt has been successfully completed.

The directors have approved

fabric, incurred losses before tax of £122,000, against profits of £52,000, in the first balf to end-

# Granville & Co. Limited

27/28 Lovat Lane London EC3R 6EB Over-the-Counter Market

Capitalisatn			Change	Gman	Vield.	F/	E Fully
£000 e	Company	Price	on week	dly /o	7 . 1645	Actual	rutey
4,866	Ase. Brit. Ind. Ord	142	~ 2	6.6	4.4	7.8	9.4
	Ass. 6rit. Ind. CULS	150	~ ī	10.0	6.6	/.=	-
3.068	Airsprung Group	53	+ 1	8.4	12.1	5.0	7.0
925	Armitage & Rhodes	37	- 2	2.8	7.8		
42.3B9	Serdon Hill	136	- 1		26	13.7	7.7 22.8
2,640	6my 7echnologies	48	~ i	ē.5	73	5.6	400
1,970	CCL Ordinary	170	- 3	12.0	7.1	9.6	0.0
	CCL 11pc Conv. Pref.	110	- 4	18.7	13.6	_	_
5,454	Carboruedum Ord	810		5.7	0.7	_	-
	Carborundum 7.5pc Pf.	38		10.7	12.4	Ξ	
680	Cledico Group	43	-10				_
4,769	Debomh Services	<b>e</b> 1	- 2	0.8			
18,086	Frenk Horsell	261	+ 7		10.6	8.1	9.4
	Frank Horsell Pr Ord 87	241	Ŧś	9.5	4.0	11.3	14.8
4.478	Frederick Parker	31	~ •	4.3		6.7	12.7
	George Bialr	51	+1	~~	13.3		==
	Ind. Precision Castings	28	+ 1	~=		3.4	8.8
	Isia Group	186	~ k	2.7	9.6	7.7	8.3
	Jackson Group	104	~ 2		8.0	7.4	18.4
38,410	Jemes Burrough	277	- í	4.9	4.7	4.8	9.4
	Jemes Surrough Spc Pf.	93	+ 1	19.7	4.9	0.5	9.4
	John Howard and Co.	84	Ŧi	12.9 8.0	13.9	-	
	Lingusphone Ord	152	+ 1 + 2	8.0	6.0	8.6	12.2
	Linguaphone 10.5pg Pf.	95	T 2			_	
16.441	Mielkouse Holding NV	604	+ 2	3.8	15.8		
	Robert Jenkins	35	I.		0.6	43.5	47.5
	Scruttone "A"	31	++22		<b>14.3</b> .		- 42
1,877	Tordey & Carllele	81	- 5	<u>~</u>	18.4	18.3 8.7	3.6 15.4
1,677	Tmvise Holdinge	370		43.	1.1		21 0
A.925	Uellock Haldlage	25	~ 02	1.3	6.2		17.5
11,898	Weiter Alexander	93	~ 17	7.5	8.6		11.2
6,227	W. S. Yestes	224	- 1	17.4	7.7	2.2 5.4	10.7
	nd details of services no					2.4	MJ. I

### HAMBRO INTERNATIONAL BOND FUND

Notice of Distribution

For the accounting year ended 31st December 1984, a distribution of U.S.\$105.60 per 10 shares is payable from 14th February 1985, against presentation of Coupon No. 9 at any of the following offices:—
Hambros Bank (Guernsey) Limited, P.O. Box 6, St. Julian's Court, St. Peter Port, Guernsey, Channel Islands.
Banque Internationale a Luxembourg, Boulevard Royal 2, Luxembourg.
Banque Bruxelles-Lambert S.A., 2 Rue de la Regence, B-1000 Brussels, Belgium.

By Order of the Fund Managers

# SHAREHOLDERS IN Dunlop, the debt-laden tyre and rubbur products group, will today receive copies of a two-page letter from the company's chairman, Sir Michael Edwardes, outlining his plans to thwart the 238m take-over bid from BTR, the breadly hased conglomerate. take-over bid from BTR, the broadly-based conglomerate. On Friday, Sir Michael announced that Dunlop's banks had agreed to give the company a breathing space. This will allow it to modify its refinancing package in favour of existing share-bolders and to draw up plans to neutralise the 28 per cent blocking stake BTR has in its preference shares.

56 companies, only one of which lems. Bergeley argues that it bas gone bankrupt. Has kept relatively clear of the Historic profits comparisons are misleading because of a forma profits are forecast to rise from \$5.2m after tax to \$5m in the current year to December.

The proposition on offer here is

worst hit sectors — low-cost integrated circuits and personal computers — while the high technology shake-out has created valuable buying opportunities outside the stock markets. The S3m insurance policy on the life of Arthur Trueger is a warning of the extent to which Berkeley relies on the skills of one man, though the team habited him. though the team behind him looks strong enough. All the same, this is no stock for widows and orphans, and the shares seem fully priced at 15.7 times

Imatron Inc (Americans)
Jason Mining (Mines—Austra-

Minoil Securities (N.L. (Mines-Australians) Process Systems, Inc (Electri-

# F.T. Share Information

The following securities bave seen added to the Share Inforbeen added to the Share Infor-mation Service: GBC Capital (Common shares and Warrants) (Section: Invest-ment Trusts)

underwritten all the shares in the £12.5m trust which will be managed by Lloyds Bank Fund Management and advised by Schroder, Munchmeyer, Hengst Capital, o Frankfurt investment managment subsidiary of Lloyds

sank.

Three-quarters of the 12.5m shares in the trust bave already ben placed with pension funds and insurance companies, and the remaining quarter will be offered to private investors, at a price of £1 each. Warrants are attached to the shares on a onepreference shares.

Sir Micbael asked in his letter how BTR could seriously question "the relatively limited" dilution of the existing share-bolders stakes in Dunlop resulting from the refinancing. BTR was offering only "e derisory participation" in its own equity to Dunlop shareholders if the bid succeeded, he said.

BTR would edd fibn worth of sales — one-third of its present turnover — if it acquired Dunlop, but its offer terms would ottached to the shares on a onefor-five basis and may be
exercised once a year from 1986
to 1995 at a price of £1 per share.
The application list will open
next Thursday. The investment trust will be

the investment trust will be the first UK fund to specialise in West German company shares. At present, there is only one authorised investment trust specialising in European markets in general, although there are several unit trusts.

### Pauls receives approach dence is in the best interes:

o view to taking it over-The board of Pauls is oppose

tional items. No tax was payable (£13,000).

# SHARE STAKES

whittington Engineering—Seaforth Investments (a Gibraltarian company) purchased 21,136 ordinary and now bolds 340,450 ordinary (29.9 per cent of voting capital).

Associated Dairies Group—D. M. Gransby, o director, has disposed of 31,000 ordinary shares at 158p and now holds 12,000.

Broux Engineering—Mr A. I. Cross has purchased o further 200,000 ordinary, making his total bolding 1,062,500 (8.5 per cent).

Whittington Engineering—Mr A. I. Turner, a director, has disposed of 250,000 ordinary shares at 10 13/16p and now bolds 4,119,936 shares (10.87 per cent).

Racal—Sir Ernest Harrison, chairman, purchased a total of 40,000 ordinary shares—25,000 at 208p, and 15,000 or 224p.

Britannia Arrow Holdings—Mr M. H. Newman, a director, sold 50,000 ordinary shares at 113p.

# **Clerical Medical**

Cash Fund	114.9		
Mixed Fund	145,0	152.7	- 4.
Fixed Interest Fund	115.8	121.9	- 1
UK Equity Fund	158.7	167.1	- 1. - 8.
Property Fund	112.3	118.3	+ ŏ.
Overseas Fund	168 4	177.3	+ 4.
Index Linked Fund	99.5	104.8	i i
Stock Exchange Fund	1180	124.3	- 4.
North American Fund	1111	1170	- 3. + 2.
Far East Fund	104 0	110.5	+ 3.
Special Situotions Fund	1050	111.5	+ å.
Prices January 30 Unit dealin	igs on 7	Wednesd	ау
Cicrical Medical Managed Funds Lim	lted		
			~
Cook Young	Bld	Offer	CDEDE

FINANCIAL	TIMES	STOCK	INDICES

	B. 81				3 31	UUR	MPK	·E.3		
	Feb.	Jan. 81	Jan.	Jen. SS	Jan. 28	Jan. 25	/106 High	4/85 Low	Since Co High	mp siletn
Government Secs.	79.87	80,09	79,80	76,40	78.02	70,62	<b>e</b> 5.77	75.72	127,4	49.1E
Fixed interest	85,44	83,79	85.e1	82,48	82.17	84.14	87,48	80.48	150,4	50,55
Ordinary	077.5	986,1	986.7	961,2	077.0	1002,e	1024.e	755,3	1024.5	40.4
Gold Miees	482,0	469.3	465.0	445,1	440.a	480,8	711,7	439.5	734.7	45.5
FT Act All Share	312.78	\$14.80	313,59	601,35	608,62	<b>620.20</b>	627.28	464,84	527,91	61.98
FT-SE100	1272,6	1280,5	1277.5	1240,2	1265.8	1088,0	1805,7	986,0	1805,7	986,9

ALLCO INTERNATIONAL LIMITEO
Guaranteed Floating Rate Notes 1996
Lincondictorily and algopularly personal by
NOTICE IS MEREBY GIVEN that the Ruse of
interest has been frest as ENS 4 a and that
the interest payable on the relevant Interest Pro- mem Date August 5, 1986 against Course No. 2
in respect at US\$50,000 nomeral of the Nates
*** US\$2.243 40
Professory 4, 1585 By Cathoria, N.A., (CSS) Dect.) London, Agent Sank

Kleinwort, Benson Limited

Banque Nationale de Paris

Bank of Tokyo International Limited

Swiss Bank Corporation International Limited

Dresdner Bank Aktiengesellschaft

Morgan Stanley International

Nomura International Limited

Yasuda Trust Europe Limited

# VERSATILE

ebruary 4 1985

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STRUCTURES For Offices, Factories, Warehouses

CREMDON STRUCTURES LIMITED Long Crendon, Aylesbury, Bucks HP18 9BB Tel: Long Crendon (0844) 208481 Telex: \$3249

# £5m hotel for Milton Keynes

ROBERT MARRIOTT, Rushden, bas been awarded a contract worth over £5m to design and build the first major hotel in build the first major hotel in Milton Keynes. The scheme is for Trusthouse Forte and consists of a five-torey atrium hotel of reinforced concrete frame construction providing 163 bedrooms, conference suites, meeting rooms, a restaurant, coffee shop, bars and a bealth and leisure club. The Post House Hotel will be built at Saxon Gate, central Milton Keynes, as part of the Central Business Exchange (CBX), in the heart of the new city.

two contracts in East Anglia. The Property Services Agency bas awarded a £3m contract to construct the Custom House at Felixatowe to accommodate HM Customs and Excise personnel who are currently leasted in who are currently located in various outbuildings within the Felixstowe Dock complex. It comprises a series of octagonal areas, with a reinforced concrete areas, with a reinforced concrete frame structure, clad with glass and provides 65,000 aq ft of offices, on three floors, surmounted by a plant room. British Rail has awarded a \$500,000 contract for a 5,500 aq ft single-storey building with traditional brick walls and slate roof for signalling acquirment. roof for signalling equipment, workshops and staff accommodation. This work forms part of the Anglia East ronte rationalisation and resignalling programme for electrification of the Livernool Street to Norwich the Liverpool Street to Norwich

JOHN LAING CONSTRUCTION bas been awarded a contract worth about £940,000 to fit out Carlisle Central Library at The Lanes. Fitting out comprises solid and demountable par-titions and doors, floor wall and ceiling finishes, staircases and handrails, mechanical, electrical and plnmbing installations. lift book hoists and built-in

With a floor area of 2,800 metres, the new library will be at least three times the size of the present ilbrary and will house about 150,000 books. It house about 150,000 books. It a first contract from the Home bished and anapted will have three levels and is on a precast portal frame structure with lighting from the column supports to the portal frame. There will be ducts as ASHBY AND HORNER has won ground tunnelling machines will feature of the building is the front entrance area which will be double-storey beight, finished with marble flooring. A banking client will be taking part to the ceiling void on either side of the portal frames. The pro
of the portal frames. The pro
of the portal frames. The pro
furbishmant of the Royal Norfolk to Underground Station, now completion in August, when the international industrial division.

Taylor

A suppointed Mr Stephen will be double-storey beight, finished with marble flooring. A banking client will be taking part of the portal frames. The pro
furbishmant of the Royal Norfolk ton Underground Station, now completion in August, when the international industrial division.

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There will be installed. An building is the front entrance area which will be double-storey beight, finished with marble flooring. A banking client will be taking part of the building on completion in August, when the formal industrial division.

There will be double-storey beight, finished with marble flooring. A banking client will be taking part of the building on completion in August, when the formal frames are to be installed. An property will be double-storey beight, finished with marble flooring. A banking client will be taking part of the building is the front entrance area which will be double-storey beight, finished with marble flooring. A banking client will be taking part of the building is the front entrance area which will be double-storey beight, finished with marble flooring. A banking client will be taking part of the building is the front entrance area which will be double-storey beight, finished with marble flooring. A banking client will be available.

The

# CRENDON £16m Preston shopping complex

will be provided with overflow

BY JOAN GRAY, CONSTRUCTION CORRESPONDENT

SIR ROBERT MCALPINE MANAGEMENT CONTRAC-TORS has won a £16m design and management contract for Charterhall Properties' Fish-ergate shopping complex, which is to be developed on the former British Rail goods yards in Preston, Lancashire.
The four-level complex will include an 11,250 sq metre three-storey Debenham's department store, scheduled to open by Christmas, 1988, and a 7,290 sq metre ASDA superstore scheduled to open by

Car parking for 840 vehicles

will be provided with overflow facilities on British Rail's new 517 space car park alongside making a total of 1,350 spaces available at reak times.

The development will include 22 smaller shops, car parking for \$40 vehicles, and speciality food court - a central square with a \$50 seat dining area surrounded by nine different varieties of fast food ontiels. The Fishergate centre will be built with a reinforced con-crete frame clad in brick. The structural design is by the McAlpine Design Group and

the architect is The Biggins

Sargent Partnership.

The contract—won in competitive tender — brings the company's current shopping centre order book for 1985 to £62m. The company won seven shopping centre contracts in 1984, worth a total of £69m.

Other major shopping centres developed by the company include Brent Cross in London, The Pavement in Chesterfield
— where 15 listed Tudor buildings had to be incorporated into the £15m new centre— and King Edwards Court in

# £7m batch for Henry Boot

HENRY BOOT has been awarded has also been ewarded a £2m a superstore in Eastgate. Work contracts worth 27m. As part of contract by Vauxhall Motors to sop, for the Greater Nottingham the North Terminal develop-carry put concrete work during Co-operative Society.

Other work includes car park

ment at Gatwick Airport, Henry the construction of a paint shop the construction of a paint shop the construction of around 400 concrete floor slabs are to be metres of road subways and 230 cast on four levels with an ovarmetres of service subways. Work all floor area of around 72,000 is elso to be carried ont on sq metres. The 20-week contract subways and 230 cast on four levels with an ovarmetres of service subways. Work all floor area of around 72,000 is ewarded the £300,000 stage two phase of its refurblishment surface water drainage and is programmed for completion in general filling to raise existing mid June 1985. The 20-week contract is due to start mid-awarded to Henry Boot Northern Work includes car park of the work includes car park area, service yard, landscaping bas ewarded the £300,000 stage two phase of its refurblishment of the construction of the work includes car park area, service yard, landscaping of Bradford Metropolitan Council bas ewarded the £300,000 stage two phase of its refurblishment of the programme at Odsall Stadium to the construction of the construction of the construction of the work includes car park area, service yard, landscaping of the construction of the work includes the care park area, service yard, landscaping of the construction of the work includes the construction of the work

# Refurbishment sector keeps active

Projects in London and the West
Midlands bead contracts worth
nearly £14m awarded to
TARMAC CONSTRUCTION.
Tarmac Cubitts, part of Tarmac
Construction, bas a £3.4m. contract for refurbishing and fitting
out premises in Victoria Street,
London, for Pearl Assurance, At
Brierley Hill, West Midlands,
Tarmac Construction bas a £3m

ment of the north yard bulldings CONTRACTING under a £3m

for Whitbread Brewery in
contract for London Regional
for Whitbread Brewery in
contract for London Regional
for Chiswell Street, London EC1. In
Transport. Wall tiles in part
of the station will depict early
tunnelling shields, including one
designed by Sir Marc Isambard
undertaken o na period property
out premises in Victoria Street,
London, for Pearl Assurance, At
Brierley Hill, West Midlands,
Martlake telephone exchange and
Martlake telephone exchange and
insystem, designed and instal-Tarmac Construction bas a £3m contract for building two retail shopping units, a distributor road, car parking and drainage, for V and P Midlands.

Other Tarmac Construction projects include the destgn end work o na museum and leisure

Hotel in South Kensington, being managed by TAYLOR remainder will be available for London, SW7, and refurbish WOODROW MANAGEMENT letting.

work o na museum and leisure complex at Kirkleatham. Hull, Cleveland, for Langbaurgh Borough Council (£878,00); an office building and associated external works at Egham, Surrey, for Carlton Real Estates Developments (£670,000) and repairing and modernising 48 bomes et Tipton, West Midlands, for Sandwell Borongh Council (£496,000).

Tarmac Cnbitts contracts include fitting-out a supermarket at Choriton-cum-Hardy, Manchester, for Safeway Food Stores (£1.1m); a fire station in Glasgow, for Strathclyde Regional Council (£971,000); refurbishing bollday chalets at Minebead, Somerset, for Butlins are to be rewired and new beatings and and and and and adapted to suit office, for refurbishing a wing at Stafford Prison.

\*\*Samble Council (£971,000); refurbishing a wing and air-conditioning will be refurbed for refurbishing a wing at Stafford Prison.

This advertisement complies with the requirements of the Council of The Stock Exchange of the United Kingdom and the Republic

**General Motors Acceptance Corporation** 

(Incorporated in the State of New York, United States of America)

¥25,000,000,000 6.5% Notes due February 8, 1990

The following have agreed to subscribe or procure subscribers for the Notes:-

Merrill Lynch Capital Markets

The Nikko Securities Co., (Europe) Ltd. Salomon Brothers International Limited

Application has been made to the Council of The Stock Exchange for the Notes, to be issued at par, to be admitted to

the Official List. Interest on the Notes is payable annually in arrears on 8th February, commencing on 10th February.

Full particulars of the Notes are available in the Extel Statistical Service and copies may be obtained during normal

business hours up to and including 6th February, 1985 from the Company Announcements Office of The Stock

Nomura International Limited

of Ireland and does not constitute an offer of, or invitation to subscribe for or purchase, any securities.

Projects in London and the West ment of the north yard buildings CONTRACTING under a 23m

Surrey, Ashby and Hornar is adding two floors to the existing Mortlake telephone exchange and in Wembley, Middlesex, a two-light industrial development is to be constructed for Mancos Computers.

LOVELL FARROW CONSTRUCTION bas won a contract from British Telecom to carry ont extensive refurbishment of the lit-storey office block at 2-12 Gresham Street, EC2. Stated to extended, with new steps leading down to an area further increased in size by the demoli-tion of British Rail storage space. This larger area will form the new ticket hall which will serve all three underground

> TROLLOPE & COLLS (CITY) has been awarded e f4m refurbishment contrect in Gresham Street, EC2. The building constructed in the early 1960s by Trollope & Colls, was previously the beadquarters of Warburgs. the beadquarters of Warburgs. The six-storey building is undergoing complete stripping to provide office accommodation and general banking facilities. New electrical and mechanical services are to be installed. An unusual feature of the building

# Consolidation moves at Lloyd's

BY JOHN MOORE, CITY CORRESPONDENT

management.

Even so, in order to attract outside capital Lloyd's has per-

mitted non-voting shares to be

created in an agency's struc-ture and there is no limitation

placed on the ownership of the

non-voting shares. Mr Adam Broadhent, director

of mercbsut bank J. Henry Schroder Wagg, which has car-

ried out the placing of shares for the Merrett agency, said:

"The regulations on ownership

and control are restrictive to

the point where they are likely

market than they beve. I think

in listed companies or those with the prospect of a share

listing. He estimates the average value of the agencies to be divested is £1m-£1.5m, "which is not enough easily to

Lloyd's agencies then are set

meet the criteria."

AN UNPRECEDENTED con by rivals. Moreover, the under members whose affairs they look to regroup and reform among centration of underwriting writing capacity of individual after.
capacity is set to take place in members may not be fully the Lloyd's insurance market as unlised by their underwriting interests of outside shareholders in the Lloyd's insurance market as brokers sever their sharebolding agent.

agencies—a few, very large realignment to u agency companies which will Lloyd's for years, control the bulk of the under— The changes in s

Over the past few months, Sturge Holdings and Mercett Holdings have consolidated their positions as the largest inde-pendent underwriting agency groups in Lloyd's and more writing management egency interests of C T Bowring.

The Bowring Lloyd's interests, rue by a partnership headed by Mr Murray Lawrence, and the Sturge and Merrett operations collectively, have access to the capacity of more than 4,000 underwriting members out of a

total of 23,438.

These statistics need to be treated wth some cauton.
Firstly, underwriting members whose affairs are managed by one agent may also participate in the underwriting activites of one of the other agencies men-

links with the management companies of underwriting units.

Yet even allowing for an be identical to those of the element of double counting and membership and produce continuits.

There is now talk of the individual agents, the trends play an executive role in the emergence of mega-underwriting suggest the biggest structural realignment to take place in

control the bulk of the under-writing capacity in the Lloyd's been triggered by legislation of community.

The changes in structure bave been triggered by legislation of 1982 which required that insurance brokers at Lloyd's should sever their shareholding links with managing agency companies by the middle of 1986.

Of a total 298 agencies, some recently there has been a man114 agency companies, managing
agement buy-out of the underthe affairs of the bulk of the underwriting membershop and accounting for much of the capacity, are affected by the legislation.
Lloyd's own divestment

recommendations and guidelines for the market have contributed to the concentration of under-

writing power. It has insisted that the agencles must remain firmly within its jurisdiction and to this end all directors of an agency company must be memoers and thirds of any agency board must be professionals who work in

This approach is also designed Uderwriting managing agento establish an identity of cies also introduce members to interest between those that look insurance syndicates managed after an agency's affairs and the

themselves and the large egeocies are likely to get larger. Other factors are also influencin an agency structure may not ing the concentration of underwriting power.

A capacity shortage threatens Lloyd's. Business volumes, largely transacted in dollars, have risen dramatically thanks to windfall gains once dollar business has been converted back to sterling. Underwriters are reaching their premium income limits and have been forced to curb business. Underwriting membership is not growing at e sufficient rate to provide the capacity to cope with the increased business

There are auggestions that in order to increase their under-writing capacity swiftly large agencies will seek to acquire

to affect values negatively.
"Lloyd's could have relied
more on disclosure and the free other agencies. With little outside capital coming into the market and commercial pressure building up internally, the divestment proposals could be perpetuating one of the problems they were received. they see more of a potential conflict than I would between names and sbarebolders." He also argues that institu-tional investors like to invest in size — not less than £50,000 units. They also prefer to invest

seeking to resolve. Concern bad been expressed in parliament about Lloyd's pos-sible loss of market identity as insurance brokers managed more of the underwriting capacity. Now with the possi-bility of the emergence of a few very large agencies, Lloyd's market identity may be under threat once again.

### **APPOINTMENTS**

# **Nat-West Senior posts**

Mr John A. Burns has been appointed deputy general manager of NATIONAL WEST-MINSTER BANK's business development division, succeeding development division, successing
Mr F. Peter Tridgell, who
retires at the end of February.
Mr Burns, deputy regional
director, City, since 1982, was
previously chief manager, planning and marketing, domestic
backing division, and divisional

backing division, and divisional financial controller.

Mr Geoff Bonner has been appointed chief manager of NatWest's access department.

Mr Bonner was deputy chief manager and succeeds Mr David Collis on his retirement. Mr Peter Le Cheminant today

mr Peter Le Cheminant today takes over as director-general of the GENERAL COUNCIL OF BRITISH SHIPPING in place of Mr Patrick Shovelton who is Mr Patrick Shoveron who is retiring. Mr Le Cheminant was second permanent secretary in charge of the Cabinet Office (management and personnel office) before joining GCBS on January 2. ALLEGHENY

Mr Robinson was director of engineering at Graviner and responsible for management purcular GRAHAM AND CO.

Grindlays Bank Group; Mr K. A. Daley, formerly vice president, Bankers Trust Company; Mr D. G. Lewis, formerly district marketing manager, Barclays Eank. Miss Sarah Jane Manton has been appointed company secretary.

Mr R. L. Payton and Mr D. T. Potter have been elected to the board of STEWART & HUGH-MAN. Mr Payton, previously a director of Baring Bothers & Co. director.

Mr Martyn Fray has been appointed financial director of VANDERHOFF COMMUNICA-TIONS. Ha was director and general manager, TI Desford Tubes.

ASTBURY AND MADELEY (HOLDINGS) has made the following board appointments at Austerwood (Holdings) sub-stdlary companies — British Fittings (Hendon) and British Fittings (Glasgow). Mr Brian W. Fittings (Glasgow). Mr Brian W.
Stanton, director, Ms Joyce
Steventon, director secretary,
Mr Brian F. Smith, director, Mr
Anthony C. Morris, managing
director, and Mr John Wood,
deputy managing director. Mr
John H. Watson, who joins the
board, remains chairman of
British Fittings.

executive responsibilities, as joint managing directors. They will remain directors of Lewis and Peat Holdings and will continue to play an active role in the group's affairs. Joining the board as non-executive directors are Mr. Michael Honderson man. are Mr Michael Henderson, maneging director (chief executive of the Cookson Group); and Mr Michael Kerr-Dincen, a senior executive of the Guinness Peat

executive responsibilities.

Mr Ettore Salemi has become general manager of BANCO DI SICILIA, London branch. He succeeds Mr Antonio Succe wbo becomes deputy chief maneger of foreign relations division of the Bank in Rome.

At the BRITISH CLOTHING INDUSTRY ASSOCIATION, the director is now Mr John R. Wilson, previously deputy director. Ms Elizabeth P. Fox becomes assistant director.

The ALL ENGLAND LAWN
TENNIS AND CROQUET CLUB
(Wimbledon) has appointed Mr
Robert McCowen to the new post
of marketing director. He was
marketing director of Slazenger Rackets and UK marketing direc-tor, of Racket Sports. TOYOTA (GB) has appointed

TOYOTA (GB) has appointed Mr Simon Phillipson as contract hire and leasing manager. In this new role be will be responsible for packages tailored to tha needs of individual dealers and their customers, and offered through Toyota Finance. He was a director with Ocean Contracts.

responsible for management 
information services.

\*\*

In a restructure Mr R. C. Watts been appointed a director of becomes chief executive of the becomes chief executive of the becomes subsidiary of Ocean appointed production director of CARDNER AND CO.:Mr M. W. while Mr D. L. Burt and Mr R. D. Transport and Trading. He has e Halma environmental control Allsup, formerly senior manager, Kissia will relinquish their been with Ocean McGregor since division subsidiary.

1980 and is responsible for the sale and purchase of vessels for the group and its associates as well as external clients.

Mr Roger L. Payton has joined the board of MORLAND AND

Following the merger between the SUN ALLIANCE and PHOENIX ASSURANCE, Mr Derek W. James has been appointed City manager for the

BRIDGE GRAPHICS, Hullbased repro subsidiary of Watmoughs (Holdings), bas appointed Mr John Ellis as deputy managing director.

TELEMETRIX, Tewkesbury, has appointed Mr John Hawkeswell to the main board as director of finance and adminis-tration. He joined Telemetrix in August 1983.

Mr Martin Cawood bas been apointed sales director for NORTON TELECOMMUNICA-TIONS GROUP. He joined the group in September 1983 as sales director for the main operating company, Norton Telecommunications Limited,

THE FOREIGN EXCHANGE THE FOREIGN EXCHANGE AND CURRENCY DEPOSIT BROKERS' ASSOCIATION has elected as chairman Mr D. Tallett (Tullett & Tokyo Forex international); deputy chairman Mr P. F. A. Nash (R. P. Matherson Mr P Martin); and as hon secretary and hon measurer Mr V. L. Halman (Harliow Meyer

### PARLIAMENTARY DIARY

Commons: Mution on the Reta Limitesten | Prescribed Maximum) (Precopts) Ordor. Romelning stages of the Hong Kong Rill.
Lorde: Osbota on a motion to cell streetion to the duty of the Gaven-

the Milk (Casestiou of Production)

Rill. Proceedings on the Town and Country Planning. Compensation) Sill. Lords: Osngarous Vessels Sill, third reoding. Administration of Justice Sill, committee. Oistrict Electomicares (MI) Orders, motion lor, approval. Food and Environment Protection Sill, third residing.

Select committees: Education, Science and Arts — Achievement in Primory Schools. Witness: Notional Association for the Teaching of English (Room 16, 10.45 sm). Delence — Orience — Committens: Solect committees: Oolence—Defence Committens: Solect committees: Olence—Defence Committens: Solect committees: Olence—Defence Committens: Solect committees: Olence—Defence Committens and Resources: Land Systems. Witness: Notions of the Greenfield Report on Effective Prescribing. Chief of the Oolonce Staft (Room 16, 10.45 sm). Delence Ministry of Defence (Room 13. Orige, Witnesses Royal Cullege of Psychiatrists: Royal Cullege of Psychiatrists: Royal Cullege of Psychiatrists: Royal Cullege of Toward Committees. Toward Committees and Resources. Toward Committees and Resources. Toward Committees and Resources and Re

tions of the Greenfield Roport on Effective Prescribing.
Solect committees: Ocience—Defonce Commitments and Resources. Witness: Field Marshall Sir Edwin Rrameti. Chiel of the Ocionco Staff (Room 16, 10.50 am). Sucial Services—Misuse at Oruge. Witnesses Royal College of Psychiotriers; Royal Cullege at GPs (Room 21, 4.15 cm). Transport—Finencing of Public Transport Services. Witness: Rt Hon Nichalas Ridley, Secretary for Transport. Employment—Training. Witness: Monpower Services. Commission (Room 8, 4.30 pm). Environment—Reports and secounts of the Sritish Board of Agreement and the

THURSDAY

nons Privote Members Bills.

### WEEK'S FINANCIAL DIARY

ink Leumi (UKI

DIVIDEND & INTEREST PAYMENTS

Mey 6 Hassell 1-fap
Moorgable lav 152 4p
Morray Indome 152 1-7p
Plastons (GB) 3u
Reed Executive 1u
Seeden (Kingdom of) Fitty Rate Nts 1993
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Tex Abrasives 0.75p
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BIYLDENO & INTEREST PAYMENTS

45cts 1 Leisure Grp 0.42a muel IM.) 1p. Do A Non1Vtg 1p philip Northern Ipv 7st 44pcPl 1.6625a

WEDNESDAY FEBRUARY 2

COMPANY MEETINGS

COMPANY MEETINGS— papuard & Rossine Railways & Harbon 163-203 Evershoft Street, NW, 12 Versen Selection, 23-35, City Road,

rade Promotions
DIVIDAND & INTEREST PAYMANTSisnnes (Caples) 1.78p
surrougha 6.7p 555
surrougha 6.7p 6.7p
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FRIDAY FEBRUARY & BOARD MEETINGS-

DIVIDEND & INTEREST PAYMENTS-DIVIDEND & INTEREST PAYMENTS—Abroyd & Smithern 12.59
American Express 3203
Sarpa Nacional De Mexico SA Fits Raise Subord Nts 1992 5316,25
sitish Belid & Eng Appliances 7.38p
Brown, NN 1992 5376,25
sitish Belid & Eng Appliances 7.38p
Brown, NN 1992 5376
Brown, NN 199

**SUNDAY FERRUARY 10** 

# **IMMEDIATE UNRESTRICTED AUCTION**

EASTERN, PERSIAN, ORIENTAL CARPETS & RUGS including items of particularly decorative calibre and merit in Silk and Wool

Items originally secured by loans of dollar denominations must now be immediately sold to cover short-term commitments which heve erisen as a result of the unprecedented fall of Sterling sgainst the United States dollar.

AUCTION WEDNESDAY, 6th FEBRUARY AT 1.00 PM

4th February, 1985

3 Gracechurch Street, London EC3V 0AD

Nomura International Limited.

Banque Paribas Capital Markets

Algemene Bank Nederland N.V.

Banque Bruxelles Lambert S.A.

Hentsch & Cie.

Toyo Trust International Limited

Dai-Ichi Kangyo International Limited

Mitsubishi Trust & Banking Corporation

Exchange and up to and including 18th February, 1985 from:-

(Europe) SA

Kleinwort, Benson Limited

Bank Len International Ltd.

**County Bank Limited** 

Cazenove & Co., 12 Tokenhouse Yard, London EC2R 7AN

The Fuji Bank Ltd., 25-31 Moorgate. London EC2R 6HQ

Fuji International Finance Limited

Bank of Tokyo International Limited

Manufacturers Hanover Limited

Yamaichi International (Europe) Limited

Morgan Stanley International

LTCB International Limited

Banque Nationale de Paris

Daiwa Europe Limited

Banca del Gottardo

Crédit Lyonnais

notion for soproval.
Select committee: Home Affairs:
Sub Committee on Race Rolotions and
amingration — Refugees. Witness:
Richard Luce MP. Foreign Office
Minister al State (Room 6, 4.15 pm).
Invironmens—Report and Accounts of
the Sports Countil, Witness: Sports
Council (Room 20, 4.30 pm).

TOMORROW

DIVIDEND & INTEREST PAYMENTS port de Bogota Fienace Corp Gtd Fits Rates Nts 1985 863.57 act of Tolyo (Ceraco) Hidge Gtd Fits Rate Nts Feb 1991 5310.25 fitish Ampricas & Gen Tist 4pcCnvLn 1900-95 Znc salim firth NV Gtd Fits Rate Nts 16 5638-7 1991-96 5.375pc

> THURSDAY PERRUARY 7 COMPANY MEETINGS-

AE, Savoy Hotel, Strand, WC, 12. Euras-Anderson, Midland Hotel, chester, 12.00

TO REPAY INDEBTEDNESS TO SWISS FINANCE HOUSE

DIVIDAND & INTEREST PAYMENT Conversion 94mc 2001 4.875pc Treasury 104mcCovStk 1987 5.125mc

DEFAULTED LOANS VALUABLE COLLATERAL

Transferred from security storage to: CHARTERED INSURANCE INSTITUTE

20 Aldermanbury, London EC2

inspection from 12 noon

Duly Instructed Auctioneers: Bickenstaff & Knowles 6 The Arcade, Thurloe Street, London SW7 Telephone: 01-589 7971

18 Sept 6 5 200 

m Fard Marker

A copy of this Otter for Sale document, which comprises issuing particulars with Companies Investment Trust pic ("the Company") given in compliance with T Regulations 1984, has been delivered to the Registrar of Companies for registrat regulations. Application has been made to the Council of The Stock Exchange for an all the ordinary shares issued and now being issued and warrants of the Company. T

best of the knowledge and belief of the Directors (who have taken all reasonable care to ensure that such is the case) the information contained in this document is to accordance with the facts and does not omit anything likely to affect the import of such information. The Directors accept responsibility accordingly. The application list for the ordinary shares (with warrants attached) now being offered for sale will open at 10 s.m. on Thursday, 7th February, 1985 and may be closed at any time thereafter. The procedure for application and a detachable

# **GERMAN** SMALLER COMPANIES INVESTMENT TRUST

(Registered in England under the Companies Acts 1948 to 1983 number 1879372)

# Offer for Sale Lloyds Bank International Limited

of 12,500,000 ordinary shares of 50p each (with warrants attached) at 100p per share payable in full on application

**Share Capital** 

7,500,000

be accepted in full.

in ordinary shares of 50p each

Underwriting

The Offer for Sale has been fully underwritten by Lloyds Bank International Limited. The Directors are aware of intended applications from sub-underwriters for a total of 9,375,000 ordinary shares (with warrants attached), representing 75 per cent. of the issued share

capital and warrants of the Company following the Offer for Sale, which applications will

Arthur John Davis, RD, Chairman Bruce Trevor Ackerman Manfred Emcke (German) The ordinary shares now being offered for sale rank in full for all dividends hereafter Klaus Kaposi (Austrian) declared or paid on the ordinary share capital of the Company. The Company has created warrants carrying rights, exercisable on 31st August in any of the years 1986 to 1995 inclusive, to subscribe for a total of 2,500,000 further ordinary shares at 1000 per share. Harry Cowderoy Partridge all of 40-66 Queen Victoria Street,

odon EC4P 4EL

Secretary and Registered Office Robert Brewer Hobson

Officers and Advisers Issuing House Lloyds Bank International

London EC4P 4EL

Barrington House,

London EC2V 7JA

40-66 Queen Victoria Street.

Lloyds Bank Fund Manage London EC4P 4EL

Schröder, Münchmeyer, Hengst Capital GmbH 4387, 6000 Frankfurt,

Piercy House, 7 Copthall Avenue London EC2R 7BE

Southwark Towers, 32 London

Auditors and Reporting Solicitors to the Compand to the Offer for Sal Price Waterhouse, Linklaters & Paines

Lloyds Bank Pic 39 Threadneedle Street, London EC2R 8AU Receiving Bankers Lloyds Bank Plc Registrar's Department, Issue Section, 111 Old Broad Street, London EC2N LAU Registrars and Tran Lloyds Bank Pic Registrar's Department,

INFORMATION CONCERNING THE COMPANY

German Stoaller Companies Investment Trust plc is being established to provide a specialist medium through which United Kingdom investors can take advantage of investment opportunities in West Germany. The Company's principal objective is to achieve capital appreciation through investment primarily in the equity securities of small and medium-sized West German companies in which above-average growth potential is perceived. There is no other listed United Kingdom investment trust ecialising solely in making investments in West Germany.

The funds raised for the Company under this Offer for Sale, which has been underwritten by Lloyds Bank International Limited, will amount to approximately £12 million, after expenses.

The West German Economy and Stock Market

West Germany has long had one of the strongest economies in Europe. This strength is supported by the country's traditional reputation for quality and efficiency and by strict monetary and fiscal policies which succeeded in reducing the annual rate of inflation to 2 per cent. by the end of 1984. These factors, combined with the recent strength of the United States Dollar and Japanese Yen against the Deutsche Mark, have sed the competitiveness of West German goods in world markets and improved the prospects for further economic growth. Government and improve the prospects for further economic grown. Government policy to West Germany, since the existing coalition came to power to October 1982, has been to encourage private sector investment and entrepreneurial effort. This encouragement, in turn, contributed to a significant rise in company profits in 1983 and 1984, during which period West Germany's FAZ 100-share index rose by 51 per cent. to reach a

Concurrent with these developments, there has been a marked increase to the number of new companies being formed and a record number of florations of small and medium-sized companies on the West German stock and over-the-counter markets. Of the 64 companies which have been brought to these markets since 1960, 32 have been floated to the past two years. The Directors consider that the sharp increase in the number of such flotations is principally attributable to the rise in company profits and the record market levels referred to above. The Directors also anticipate a shift rowards investment by individuals in shares and securities as a result of recent restrictions on the tax sheltering advantages

The Directors consider that the combination of West Germany's basic strengths and the growth potential of small and medium-sized compining that country now presents attractive investment opportunities.

**Investment Management** 

The Directors of the Company will be responsible for the determination of the Company's investment policy and will have overall control of the Company's activities. The Company has appointed Lloyds Bank Fund Management Limited as Investment Manager to manage the Company portfolio on a day-to-day basis and to make and implement specific investment decisions. The individual fund managers within Lloyds Bank Fund Management Limited have considerable experience in investing institutional funds and they are currently responsible for the discretionary management of 31 institutional portfolios and 9 unit trusts with funds amounting to approximately £3,000 million, of which £21 million is invested to West Germany. The terms of the Investment Management Agreement are summarised in paragraph 6(b) under 'General Information' below

The Investment Manager will be advised by Schröder, Münchmeyer, Hengst Capital GmbH ("SMH Capital"), which has been appointed as Investment Adviser on the terms of the Investment Advisory Agreement summarised in paragraph 6(c) under 'General Information' below. SMH Capital is the Frankfurt-based investment management arm of Schröder, Münchmeyer, Hengst & Co., a West German investment and commercial banking organisation which became a member of the Lloyds Bank Group in January 1984. SMH Capital has considerable experience in portfolio management for institutional clients in West Germany and, directly and through its subsidiaries, manages 7 institutional funds and 4 toutual funds one of which specialises in small West German companies. Total funds under the management of SMH Capital exceed £300 million, of which more than one-half is invested in West German equities.

The combined expertise of the Directors of the Company, the Investment Manager and the Investment Adviser will be of significance in the successful development of the Company's portfolio. Particular advantages are expected to result from the links between Lloyds Bank Fund Management Limited and SMH Capital and the specialist local

knowledge and experience of the latter to relation to West Germany.

The principal objective of the Company is the achievement of capital appreciation. Accordingly, the Company will build up a diversified portfolio by actively seeking and investing the net proceeds of this Officer for Sale in equity securities of small and medium-sized West German companies which are perceived to have particular expertise in their markets and above-average growth potential. United Kingdom investors would, in general, either be unaware of such companies or unable invest to them as cost-effectively as the Company. Securities of large multinational companies based in West Germany will not normally be included in the portfolio unless the prospects of capital appreciation are considered to be significantly better than those of comparable investments to small and toedium-sized companies.

It will be past of the investment policy of the Company that the contract of the companies. The principal objective of the Company is the achievement of capital

It will be part of the tovestment policy of the Company that not more than 10 per cent. of its assets (before deducting borrowed money, if any) may be invested in the securities of, or lent to, any one company (including leans to and shares in its own subsidiaries, if any). Furthermore, the loans to and shares in its own subsidiaries, if any). Furthermore, the Company will not invest more than 25 per cent. of its assets (before deducting borrowed money, if any) in the aggregate of (a) holdings in which the interest of the Company amounts to 20 per cent. or more of the aggregate of the equity capital (including any capital having an element of equity) of any one listed company and (b) securities not listed on any recognised stock exchange (for which purpose West German over-the-counter markets are not treated as recognised stock exchanges). This investment policy will be adhered to for a period of at least 3 years from the date of this document.

It is the intention of the Directors that the income of the Company will be derived mainly from securines although interest will be earned on funds which are from time to time held in liquid form pending investment. Cash and liquid funds will normally be held to Deutsche Marks unless it is judged that higher returns could be derived from holding Sterling.

The Company is empowered, by its Articles of Association, to borrow an amount of up to its net assets; it is not, however, presently envisaged that this borrowing power will be extensively utilised other than m enable the Company to take advantage of temporary market opportunities.

Successful applicants will receive warrants cooferring, in respect of every 5 ordinary shares purchased under the Offer for Sale, the right to subscribe for 1 ordinary share. The warrants will be exercisable on 31st August to any of the years 1986 to 1995 inclusive at a subscription price of 100p per share (subject to the usual adjustments). Further details are set der 'Particulars of the Warrants' below.

In order to qualify as an investment trust under the Income and Corporation Taxes Act 1970 (as amended), not less than 85 per cent. of the Company's income arising from shares and securities in any accounting period will be distributed to shareholders. As stated above, however, the principal objective of the Company is the achievement of capital appreciation and, consequently, investments are not expected to be made in high-yielding securines; dividend payments by the Company are therefore likely to remain modest. The Company's Articles of Association provide that profits from the sale of securities will not be available for distribution as dividends. Annual accounts will be made up to 31st March in each true. The Company's Engagement and the made up to 31st March to each year. The Company's first accounts will be made up for the period from its incorporation to 31st March, 1986.

Directors of the Company Mr A. J. Davis, RD, aged 60, is the Chairman of the Company. After more than 40 years' service with Lloyds Bank Plc, he retired as Chief General Manager in July 1984. From 1978 until his retirement, Mr Davis was Chairman of the Lloyds Bank Staff Funds Investments Management Committee. He is now the non-executive Vice Chairman of Lloyds Bank Plc and of Lloyds and Scortish Plc, a non-executive Director of Yorkshire Bank PlC and Deputy Chairman of the Council of the Institute of Bankers.

Mr B. T. Ackerman, aged 40, is a Director of Lloyds Bank Fund Management Limited. He joined the Lloyds Bank Group in 1970 as a senior investment analyst, subsequently managing institutional funds, and in 1983 was appointed Deputy Chief Investment Manager with

responsibility for investment policy and London-based fund manage-

Herr M. Emcke, aged 51, is the former Chief Executive of Reemtsma Cigaremenfabriken GmbH, a major West German tobacco company. He is now a non-executive Director of several West German companies, including Deckel AG (of which he is Chairman), Tschibo Frisch-Rösch-Kaffee AG (of which he is Vice Chairman), Continental Gummi-Werke

AG and Orenstein & Koppel AG. Dr K. Kaposi, aged 47, is Managing Director of SMH Capital where be has been responsible for investment management activities since joining the predecessor of that company in 1981. Dr Kaposi has been involved in fund management since 1970 and, for the 6 years prior to joining SMH Capital, be was a fund manager with ADIG Allgemeine Deutsche vestment-Gesellschaft, a West German fund management company.

Mr H. C. Partridge, aged 59, has been Controller of Finance and Planning at the Civil Aviation Authority ("CAA") since its formation in 1972. He was appointed a Member of the CAA in 1974 and is currently Chairman of Caviapen Trustees Limited, the custodian trustee of the CAA pension funds, and of the Trustees of the CAA Superannuation Scheme. Mr Partridge is also a non-executive Director of Charterhouse Japhet Venture Fund Management Limited and acts as an adviser to several

The following information is based on the law and practice currently in force in the United Kingdom and in West Germany. If tovestors are in any doubt about their taxation position, they should ascertain from their professional advisers the consequences to them of acquiring, holding or isposing of ordinary shares and warrants in the Company.

It is the intention of the Directors so to conduct the affairs of the Company It is the intention of the Directors so to conduct the affairs of the Company that it satisfies the conditions for approval as an investment trust laid down in Section 359 of the Income and Corporation Taxes Act 1970 (as amended). Such approval is granted retrospectively and, in respect of each accounting period for which approval is granted, the Company will be exempt from corporation tax on its capital gains. The income of the Company (including income arising outside the United Kingdom) will be subject to corporation tax after relief for expenses and loan interest. Income arising in West Germany may be subject to withholding taxes at varying rates but double totation relief will be available to reduce the Company's United Kingdom corporation tax; the amount of such relief may be limited by the requirement to pay Advance Corporation Tax on dividends.

United Kingdom Shareholders and Warrantholders

With regard to income, shareholders will be entitled to receive an associated tax credit in respect of dividends corresponding to the Advance Corporation Tax applicable to such dividends and payable by the Company. With regard to capital gains, shareholders and warrantholders may be liable to taxation in respect of gains arising from the sale or other disposal of shares or warrants or on a winding up of the Company. For the purposes of taxation on capital gains the amount subscribed by initial purchasers of ordinary shares (with warrants attached) will need to be apportioned between the ordinary shares and the warrants on the basis of apportioned between the ordinary shares and the warrants on the basis of their respective valoes at the date of allorment of the ordinary shares. The relationship between those values is expected to be close to that between the ordinary shares and the warrants on the date when they are first dealt

The exercise of warrants will not constitute the disposal of an asset for the purposes of United Kingdom capital gains tax; the cost attributable to the warrants exercised will be added to the cost of the ordinary shares so

The warrants will not constitute "wasting assets" under Section 138 of the Capital Gains Tax Act 1979 and, on their disposal or abandonment, the cost attributable to the warrants, calculated as above, will be allowed in

Accountants' Report

The following is the text of a report received by the Directors from Price Waterhouse, the Auditors and Reporting Accountants:

The Directors. German Smaller Companies Investment Trust plc and Lloyds Bank International Limited.

Southwark Towers, 32 London Bridge Street, London SEI 9SY.

1st February, 1985.

We report that German Smaller Companies Investment Trust pic was incorporated on 21st January, 1985 and since that date no audited accounts have been made up, no dividends have been declared or paid and the Company has not commenced business.
Yours faithfully,
Price Waterhouse, Chartered Accountants.

Application Procedure and Dealings The application procedure in respect of the 12,500,000 ordinary shares. (with warrants attached) now being offered for sale and a detachable application form appear at the end of this document. Application forms, application form appear at the end of this document. Application forms, cach with the appropriate remittance, should be lodged not later than 10 a.m. on Thursday, 7th February, 1985. It is expected that fully paid renounceable letters of acceptance will be posted on Tuesday, 12th February, 1985 and that dealings in the ordinary shares (with warrants) strached, 1955 and that dealings in the ordinary shares (with warrants attached, will commence on Wednesday, 13th February, 1985. Until Friday, 22nd March, 1985 (the last date for registration of renunciation), dealings in the ordinary shares (with warrants attached) will be in multiples of 5 ordinary shares only; thereafter, ordinary shares and varrants will be dealt in separately.

At 3 p.m. on 29th January, 1985 the exchange rate to the London spot market was Doutsche Marks 3.5355 to £1 Sterling. All financial information given herein has, where relevant, been based on this exchange rate. The ordinary shares and warrants will be quoted to Sterling, whereas the underlying moestments of the Company will generally be denominated to Deutsche Marks. Investors should be aware that non-Sterling investments carry the risk of currency fluctuations.

PARTICULARS OF THE WARRANTS

Warrants will be issued subject to and with the benefit of the following conditions:

I Subscription Rights

(a) A registered holder ("a holder") of a warrant shall have rights to subscribe ("subscription rights") in cash on 31st August to any of the years 1986 in 1995 inclusive (or, if later, the date to any such year 30 days after the date on which copies of the andited accounts of the Company for its then immediately perceding financial year are despatched to holders) for all or any of the ordinary shares of 50p each of the Company specified to the warrant at a subscription price of 100p per ordinary share ("subscription price") payable in full on subscription Each date on which subscription rights are exercisable is herein referred to as a "subscription date".

(b) In order to exercise the subscription rights the holder of a warrant must, having completed the Notice of Subscription thereon, lodge it at the office of the Registrars of the Company not later than 7 days point to the relevant subscription the accompanied by a remitmone for the total subscription price of the ordinary states in respect of which the subscription rights are exercised. Once lodged, a Notice of Subscription shall be irrevocable save with the consent of the Directors. Compliance must also be made with any statutory requirements for the time being applicable. The subscription rights will not be exercisable in respect of a fraction of an ordinary above.

Not earlier than 6 weeks nor later than 4 weeks before each subscription date the Company shall give notice in writing to the holders of the outstanding warrants reminding them of their subscription rights.

(d) The ordinary shares issued pursuant in the energies of subscription rights will be allotted not later than 14 days after and with efficer on and from the relevant subscription dues and certificates in respect of such abares will be issued not later than 28 days after the relevant subscription due to the persons in whose names the warrants are registered at the date of such exercise or (subject as permitted by law) to such other persons as may be named in the Form of Nomination on the reversiof the warrant. If the subscription rights comprised in a warrant are exercised in part, the Comman shall at the same three issues of fresh warrant of the range of the holder for.

Ordinary shares allotted pursuant in the emreise of subscription rights will not rank for any dividends or other distributions declared, made or paid in respect of any financial year of the Company prior to the financial year in which the subscription date falls but, subject thereto, will rank pair passs in all other respects with the ordinary shares in issue at that date including in full for all dividends and other distributions in respect of the then current financial year but not for any earlier period.

Application will be made to the Council of The Stock Exchange for the or shares allotted pursuant to any exercise of subscription rights to be admitted Official List and the Company will use all reasonable endeavours to obtain the thereof not later than 28 days after the relevant subscription date.

Upon any allocment of ordinary shares fully paid by way of expirationation of profits or reserves to bolders of the ordinary shares on the register on a date (or by reference to a record date) before the final subscription date or upon any sub-division or consolidation of the ordinary shares before such date, the number suddo nominal value of ordinary shares to be subscribed on any subsequent exercise of the

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subscription rights will be increased or, as the case may be, reduced in the proportion and the subscription price per share will be adjusted accordingly. On any othe Company shall carrily the appropriate adjustments and within 28 days of such respect of any additional shares for which that holder is entitled to subscribe in consequence thereof, fractional entitlements being ignored.

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(b) If, on a date (or by reference to a record date) before the final subscription date, the Company makes any offer or invitation (whether by rights issue or otherwise) to the holders of the ordinary shares, or any offer or invitation (not being an offer to which paragraph 3 (i) below applies) is made to such holders otherwise thin by the Company, then the Company shall, so far as it is able, procure that at the same time the same offer or invitation is made in the then holders of the warrants as if their subscription rights had been exercisable and had been exercised on the day immediately preceding the record date of such offer or invinition on the basis then applicable.

### Other Provisions

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So long as any anisoriprion rights remain exercisable:

(a) the Company shall not (i) make any distribution of capital profits or capital reserves except by means of a expinitisation issue to the form of fully paid ordinary shares, (ii) issue securities by way of capitalisation of profits or reserves except ordinary shares exceptized as fully paid and issued to the holders of its ordinary shares, or (iii) on or by reference to a record date falling within the period of 6 weeks ending on any subscription date make any such offer or invitation as is referred to its paragraph 2(b) above (except by extending to the holders of the warrants any such offer as may be made by a third party);

(b) the Company shall not to any way modify the rights attached to its existing ordinary shares as a separate class or create any new class of share capital except for shares which carry, as compared with the existing ordinary shares, no more advantageous rights as regards voting, dividends and return of capital;

(c) the Company shall keep available for issue sufficient authorised but unissued share capital to satisfy in fall without the need for the passing of any resolution by shareholders all subscription rights remaining exercisable;

(d) the Company shall not issue any ordinary shares credited as fully paid by way of capitalisation of profits or reserves not make any such offer as is referred to in puragraph 2 (b) above if as a result the Company would on any subsequent exercise of the authorition rights be obliged to issue ordinary shares at a discount;

(e) the Company shall not (i) smend its Articles of Association so as to enable any distribution of capital profits or capital reserves, (ii) reduce its share capital or (except as authorised by Section 56 of the Companies Act 1948 as from time to time smended or re-casered) any share premium account, or (iii) purchase or redeem any share capital;

share capiral;

(i) if at any time an offer is made to all ordinary shareholders of the Company (or all such shareholders other than the offeror and/or persons acting in concert with the offeror) to acquire the whole or say pert of the issued ordinary share capital of the Company and the Company becomes aware that as a result of such offer the right to cast a majority of the votes which may ordinarily be cast at a General Meeting of the Company shall give notice to the warrandholders of such vertice within 14 days of becoming so aware, and each such holder shall be emitted, at any time within 14 days of becoming so aware, and each such holder shall be emitted, at any time within the period of 180 days immediately following the date of such notice (for which purposes the date on which such notice is given shall be decreted to be a subscription date, to paragraph 2(a) above) acr out to paragraph 1 above and in that failing such exercise within such period such inglus shall upon the exprise of such period case case of determine provided that if, during such period, such offeror (and/or such persons as afonessid) becomes entitled to exercise rights of compulsory acquisition of ordinary shares puramant to Section 299(1) of the Companies Act 1948 and gives notice in writing to any holders of ordinary shares that be intends to exercise such rights, the warrant shall be and ternial exercisable until one month from the date of such notice and in the extent that they have not been exercised shall thereupon cases and determine; and

(g) if an order is made or an effective resolution is passed for winding up the Company (except for the purpose of reconstruction, amalgamation or univariant on earns sauctioned by an extraordinary resolution of the holders of the warrants), each holder of a warrant will (if to such winding up there shall be a surplus available for distribution amongst the holders of the ordinary shares (including for this purpose the ordinary shares which would arise on the exercise of all the subscription rights; exceeds in respect of each ordinary share a sum equal to the subscription price) be treated as if immediately before the date of such order or resolution his subscription rights had been exercised in full on the hast then applicable, and shall accordingly be entitled to receive out of the suste available to the inquidation pair passa with the bolders of the ordinary shares such a sum as be would have received had be been the holder of the ordinary shares to which he would have become entitled by virme of such subscription after deducting a sum par share equal to the subscription price; subject to the foregoing, all subscription rights shall lapse on liquidation of the Company.

All or any of the rights for the time being attached to the warrants may from time to time (whether or not the Company is being wound up) be altered or abrogated with the sanction of an extraordinary resolution of the holders of the warrants.

the sanction of an extraordinary resolution of the holders of the warrants. For the purposes of these conditions "extraordinary resolution" means a resolution proposed at a meeting of the holders duly convened and held and pessed by a majority consisting of not less than three-fourths of the votes cast, whether on a show of lands or on a poll. All the provisions of the Articles of Association for the time being of the Company as to General Meetings shall maintri mannabil apply as though the warrants were a class of shares forming part of the capital of the Company but so that (i) the peciod of notice shall be 21 days at least, (ii) the necessary quarum shall be holders (present in person or by proxy) entitled to subscribe for one-third in nominal amount of the ordinary shares attributable to the then outstanding warrants, (ii) every holder present in person at any such meeting shall be emittled on a hold to one vote and every holder present in person or by proxy shall be entitled on a poll to one vote for every volders present in person or by proxy shall be entitled on a poll to one vote for every ordinary share for which he is centred to subscribe, (iv) any holder present in person or by proxy may defined is not present, those holders who are then present to person or by proxy shall be a quorum.

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Each warrant will be registered and will be transferable in whole or to part by instrum of transfer in any usual or common form, or in any other form which may be approved the Directors: No transfer of a right to subscribe for a fraction of an ordinary share may effected.

The Company will concurrently with the issue of the same to in ordinary shareholders send to each warrantholder (or in the case of joint holders to the first-named) a copy of each published annual report and accounts of the Company together with all documents required by law to be annexed thereto, and a copy of every statement, notice or circular issued to ordinary shareholders.

### SUMMARY OF THE COMPANY'S OBJECTS AND ARTICLES OF ASSOCIATION

The Memorandum of Association of the Company provides that the Company's principal objects are to carry on the business of an investment trust company in all imbunches, and for that purpose to acquire and hold for investment shares, stock, debentures, debentures, objects, bonds, notes, obligations and securities issued or guaranteed by any company and debentures, debentures, objections and securities issued or guaranteed by any government, sovereign ruler, commissioners, public body or authority, supreme, municipal, local or otherwise, and units of and other rights in unit trusts, manual finds, collective investment undertakings and other bodies and entities, in any such case whether at home or abroad, and to act as and to perform all the functions of a boding company. The objects of the Company are set out in full in Claime 4 of the Memorandum of Association which is available for inspection at the address specified in paragraph 9 under 'General Information' below.

The Articles of Association of the Company contain, interalia, provisions to the following

Directors
 The minimum number of Directors is two and the maximum ten.

(b) No share qualification shall be required.

(c) Subject to the provisions of the Companies Acts 1948 to 1983, the Directors may from time to time appoint one or more of their number to be the holder of any executive office on such terms (including remuneration) as they time it would without prejudice to the terms of any contract between him and the Company, may any time revoke any such appointment. At each Annual General Meeting one-third of the Directors (or the number pearest to but not exceeding one-third) shall review by routing.

retire by rotation.

Subject to the provisious of the Companies Acts 1948 to 1983, a Director may hold any other office or place of profit under the Company or any other company in which it is interested (other than that of auditor) in conjunction with his office of Director for such period and on such terms (as to remnutration and otherwise) as the Directors may determine and on Director shall be disqualified by his office from contracting with the Company or any other company in which it is interested or shall be fiable to account to the Company for any profit realized from any such contract by reason of such Director holding thas office. Any Director may act by himself or his firm in a professional capacity for the Company (otherwise then as sudditor) and hear his firm shall be entitled to remaineration for professional services as if he were not a Director.

The Directors shall be entitled to a maximum aggregate remuneration of £20,000 per annum (or such greater amount as shall be determined by ordinary resolution of a General Meeting of the Company), to be divided between them as they may determine. The Directors may be paid all reasonable expenses properly incurred by them. In strending meetings of the Directors and committees of the Directors, General Meetings or otherwise in or about the business of the Company.

(f) Any Director who, to the opinion of the Directors, performs services ounide the acope of the ordinary duries of a Director, may be paid such remuneration as the Directors may think fit either in addition to or in substitution for any other remuneration be may be entitled in receive.

remoneration be may be entitled in receive.

Save in relation to certain specific exceptions in the Articles of Association (for example concerning the giving of security in respect of obligations incurred by a Director on behalf of the Company, an offier of securities in which he is interested as an underwriter, or a pension or employees' share scheme which is subject to Inland Revenue approval) a Director shall not vote (or be counted in the quorum present at meeting of the Directors to relation to any resolution on which be is debarred from woring) in regard to any contract, transaction, arrangement or proposal in which be less a material interest. Subject to the provisions of the Companies Aces 1948 to 1983, the Company may by ordinary resolution suspend or relax such provision to any extent or rainfy any transaction and only sutherised by reason of such provisions.

(h) Section 185 of the Companies Act 1948, regarding the appointment and retire of Directors who have attained the age of 70, applies to the Company.

The Directors on behalf of the Company may pay a grantity or pension or allowance on retirement to say Director who has held any salaried office or place of profit with the Company or any subsidiary or to his widow or dependants and may make contributions to any fund and pay premiums for the purchase or provision of any such grantity, pension or allowance and may make payments for or sowards the insurance of any such person.

The Directors of the Company may exercise all the powers of the Company to becrow money and to mortgage or charge its undertaking, property and uncalled capital and, subject to the Companies Acts 1948 to 1933, to issue debentures and other securities whether outright or as a collateral security for any debt, liability or obligation of the Company by of any third party. The Directors shall restrict the borrowings of the Company and exercise all voting and other rights or powers of control exercisable by the Company in relation to its subsidiaries (in any to as to secure (but as regards subsidiaries only ispoint as by the exercise of such rights or powers of control the Directors can secure) that the aggregate amount for the time being remaining outstanding of all moneys borrowed by the Company and its subsidiaries (other than from any of such companies) shall not at any time, without the previous sanction of an ordinary resolution of the Company, exceed a sun equal to the aggregate of the amount paid up on the issued there expired for the time being of the Company and the amounts standing to the credit of reserves of the Company and its subsidiaries.

The Directors of the Company shall establish a capital reserve and carry to the credit of such reserve or apply in providing for depreciation or continuousless all'capital approximation arising on the sale, realisation or re-valuation of any capital assets of the Company in causes of the book value thereof. Any losses realised on the sale or realisation of any capital assets and any maximo arising to consequence of any such sale or realisation may be defined against the capital reserve except insofar as the Directors shall in their discretion decide to make good the same out of other funds of the Company. The capital reserve, and all moneys in the nature of accretion to capital assets, shall not be available for dividend.

Subject to the provisions of the Companies Acrs 1948 to 1983, all unistated thates are at the disposal of the Directors who may allot, grant options over or otherwise dispose of them on such terms and to such persons as they think proper.

All rights or any of the rights or privileges attaching to any class of share may, subject to the provisions of the Companies Acts 1948 to 1983, be varied or shrugased either with the consent in writing of the holders of not less than three-fourths of the issued shares of that class or with the stanction of an expreordinary resolution passed at a separate meeting of the holders of such shares.

Subject to disenfranchisement of a member in the event of non-payment of any calls or other moneys due and payable in respect of any shares or non-compliance with a statutory notice requiring disclosure as to beneficial ownership and subject to any special terms as to woring on which any shares may be held, on a show of hands every member present in person shall have one vote, and on a poll every member present in person or by proxy shall have one vote for every ordinary share held by him.

Shares are in registered form and the insurument of transfer of a share may be in any usual form or in any other form which the Directors may approve, and shall be executed by or on behalf of the transferor and, unless the share is fully paid, by or on behalf of the transferor. The Directors may in their absolute discretion, and without giving any reson, refuse to register the transfer of a share which is not fully paid. The Articles contain on restrictions on the free transferability of fully paid ordinary shares, provided that transfers are in favour of not more than 4 transferees.

Dividends and Distribution of Assets on Liquidation The holders of the ordinary shares are entitled part passs amongst themselves, but in proportion in the number of ordinary shares held by them, in share in the whole of the profits of the Company paid out as dividends and the whole of any surplus in the event of the liquidation of the Company.

9 Unclaimed Dividends

Any dividend unclaimed after a period of twelve years from its date of declaration shall be forfeited and shall revert as the Company.

### **GENERAL INFORMATION**

At the date hereof the Company has on loss capital (including term losses) outstanding, or created but unistated, nor any outstanding mortgages, charges, debentures or other borrowings or indebtedness in the nature of borrowing, including bank overdrafts, liabilities under acceptances or acceptance credits, hire purchase commitments, guarantees or other material contingent liabilities.

(a) The Company was incorporated in England under the Companies Acts 1948 to 1983 on 21st January, 1985 as a public limited company (registered number 1879372) with an authorised state capital of £50,000 divided into 100,000 ordinary shares of 50p each. On 23rd January, 1985 two ordinary shares were issued at 100p each to the authorishers to the Memorandum of Association.

On 23rd January, 1985 resolutions of the Company were passed whereby: (i) the authorised share capital of the Company was increased to £7,500,000 divided into 15,000,000 ordinary shares of 50p each;

(ii) the Directors were, pursuant to Section 14 of the Companies Act 1960, given authority (expiring on 23rd January, 1986) and empowered, in accordance with Section 18 of that Act as if Section 17 (1) thereof did not apply, to allor and to make offers or agreements in a slict relevant securities up to the amount of the incressed authorised share capital; and

(iii) the Company adopted new Articles of Association.

On 23rd January, 1985 the sobscribers to the Memorandum of Association transferred their states to Lioyds Bank International Limited ("LBI") and LBI agreed to subscribe for a further 99,998 ordinary shares at 98,19p each and such ordinary shares were allotted to LBI against an irrevocable undertaking by LBI to pay 60.89p per share not later than 31st May, 1985 and the balance when called thereafter.

(d) On 31st January, 1985 the Company obtained a certificate under Section 4 of the Companies Act 1980 authorising it to commence business.

(e) On 31st January, 1985 the Company created warrants, having the rights set out under "Particulars of the Warrants" above, to subscribe for 2,500,000 ordinary

(f) The share capital of the Company is 23 follows:

12,499,998 12,500,000 2,500,000 La issue following the Offer for Sale Reserved for issue pursuant to the exercise of warrants 15,000,000

we as disclosed above, no issues of share capital have been made by the Company (g) Apart from the issue of ordinary shires pursuant to the Offer for Sale and upon the exercise of subscription rights attaching to the warrants:

(i) on material issue of shares of the Company (other than to shareholders provide to existing shareholdings) will be made within one year of the date of this document without the prior approval of shareholders to General Meeting;

(ii) on issue of shares in the Company will be made which would effectively alter the control of the Company without the prior approval of shareholders to General

(iii) on share or loss capital of the Company is under option or agreed conditionally or unconditionally to be put under option.

(a) No Director has any interest (as defined in Part IV of the Companies Act 1981) in the share capital of the Company. The following Directors have indicated their intention to apply under the Offer for Sale for the numbers of ordinary shares (with warrants annached) specified against their names—Mr A. J. Davis: 1,000; Mr H. C. Partridge: 1 000.

(b) Save through the directorships disclosed in paragraph 3(c) below, on Director less or has had any interest in any transaction which, since its incorporation, has been effected by the Company.

The Directors are aware of intended applications from sub-underwriters for a total of 9,375,000 ordinary shares (with warrants attached), representing 75 per cent. of the strend share expiral and warrants of the Company following the Offer for Sale, which applications will be accepted to full. Of this total, funds under the management of Lloyds Bank Fund Management Limited ("LBFM") account for intended applications for a total of 2,500,000 ordinary shares (with warrants attached), representing 20 per cent. of the issued share expiral and warrants of the Company following the Offer for Sale. If the offer is not fully taken up then funds under the management of LBFM could, as a result of their sub-underwriting commitments, come to hold a maximum of an additional 25 per cent. of the issued share capital and warrants of the Company following the Offer for Sale. The Panel on Take-overs and Mergers has studed that if, as a result of such arrangements, such funds come to hold in aggregate 30 per cent. or more of the issued share capital of the Company it will waive any obligation which there would otherwise be to make a general offer under Rule 34 of the City Code. Thereafter, LBFM and funds under its management would be free to increase their aggregate holding in the Company by not more than 2 per cent. in any twelve-mouth period up to an aggregate holding of 50 per cent. of the assued share capital of the Company and thereafter by any amount without being obliged to make a general offer under the asid Rule 34. The Directors are aware of intended applications from sub-underwriters for a total of

(d) The Directors are sware of the following interests which, immediately following the Offier for Sale, and assuming the offier is fully taken up, will amount to 5 per cent. or more of the issued share capital of the Company:

LBFM (in respect of its managed funds)

Cavinpen Trustees Limited

Sove as disclosed above, the Directors are not aware of any other person with following the Offer for Sale, would be required to disclose an interest in the ordinal shares under Part IV of the Companies Act 1981.

snares under Part IV of the Companies Act 1981.

LBI, LBPM and SMH Capital are all wholly-owned subsidiaries of Lloyds Bank Pic. Mr. A. J. Davis, a Director of the Company, is non-executive Vice Chairman of Lloyds Bank Pic and Mr. B. T. Ackerman and Dr. E. Kaposi, both also Directors of the Company, are Directors of LBFM and SMH Capital respectively. Mr. H. C. Partridge, a Director of the Company, is a Director of Caviapen Trustees Limited.

All the Directors are non-executive. Accordingly, there are no service agreements existing between the Company and its Directors and on such agreements are proposed to be entered into. No remaneration has been paid to the Directors to date and it is the intention of the Directors that on remaneration should be paid to them to the fature, other than the first referred to in paragraph I(e) under 'Summary of the Company's Objects and Articles of Association' above.

5 Office for Sole Arrangements

By an Agreement dated 1st February, 1985 and made between (1) the Company, (2) the Directors and (3) LBI, LBI agreed to sobscribe for 12,400,000 ordinary shares of 50p each in the Company, with warrants attached to subscribe for 2,500,000 ordinary shares, for a subscription price of 98,19p per share and, at the same time as making payment therefor to make payment to full for the 99,998 ordinary shares referred to in paragraph 2(c) above and to offer all the same, together with the 2 ordinary shares purchased from the subscribers, to the public at the Office for Sale price of 100p per share. The Agreement is conditional, insee alia, on the Council of The Stock Eachange admitting all of the ordinary shares, issued and now being issued, and warrants of the Company to the Official List (subject only so acceptance) not later than 13th February, 1985.

The Agreement provides for the Company to pay a fee of £30,000 to LBI and a fee of £10,000 to LBI and a fee of £10

The Agreement also contains provisions which permit it to be terminated by LBI or the Company, prior to the amouncement of the basis of allocation, to the event of a material breach of any of the warranties given to LBI therein or, by LBI, if LBI determines that, by resion of a material adverse change to market conditions, the Offer for Sale should not

L.B.I will pay sub-underwriting commissions of 1½ per cent. of the Offer for Sale price (plus value added tax) in those sub-underwriters who have already indicated their intention to apply for an aggregate of 9,375,000 ordinary shares in the Offer for Sale. The balance of 3,125,000 ordinary shares in the Offer for Sale. The balance of 3,125,000 ordinary shares in the Offer for Sale the balance of 3,125,000 ordinary shares more being offered is being sub-underwriting to the funds instanged by L.B.F.M. which funds will be paid sub-underwriting commissions by L.B.I aguivalent to ½ per cent. of the Offer for Sale price (plus value added tax).

The Company has agreed to pay immediatory commissions of ½ per cent. of the Offier for Sale price (plus value added tax) to recognised banks and succidenders on accepted applications bearing their stamp and value added tax registration number (if applicable).

6 Material Contracts

The following contracts, not being contacts entered into in the ordinary course of business, have been entered into by the Company since in incorporation and are, or may

(a) the Offer for Sale Agreement referred to in paragraph 5 above;

(b) an Agreement dated 1st February, 1985 between (1) the Company and (2) LBFM whereunder LBFM has agreed to provide investment management services to the Company for an annual for of % per cent. of the value of the Company's gross assess at the end of the preceding year, such fee being psyable by equal half-yearly instalments in advance. The Agreement comming psyables by equal half-yearly instalments in advance. The Agreement comming provisions indemnifying LBFM against any liability not due to its wilful default, bad faith or gross negligence. The Agreement is terminable by 3 months' notice expiring on or at any time after 1st February, 1985; and

an Agreement dated 1st February, 1985 between (1) the Company, (2) LBFM and (3) SMH Capital whereunder SMH Capital has agreed to provide investment advisory services to LBFM and the Company for a fee payable by LBFM and to be agreed between LBFM s.-1 SMH Capital. The Agreement contains provision indemnifying SMH Capital against any labelity not due to its wifful default, but faith or gross negligence. The Agreement is terminable by the Company or SMH Capital by 3 months' notice expiring on or at any time after 1st February, 1982.

It is intended that approval under Section 359 of the Income and Corporation Taxes Act 1970 in respect of the status of the Company as an approved investment trust will be applied for in respect of each accounting period.

When paying a dividend the Company has to remit to the Inland Revenue an amount of Advance Corporation Tax ("ACT") at a rate which is related in the basic rate of income tax and is currently 37/ths of the dividend paid. Accordingly, the ACT related to a dividend currently equals 30 per cent. of the sum of the cash dividend plus the ACT.

For non-corporate shareholders resident in the United Kingdom, an amount equivalent to the ACT paid is available as a tax credit which such shareholders who are in resident may be able to set off against their total iscome tax liability or, in appropriate cases, reclaim in cash. A United Kingdom resident corporate shareholder will not be liable to United Kingdom corporation tax on any dividend received. Persons should consult their own tax advisers about their personal situations and the possibility of claiming tax credits equivalent to the ACT paid on the dividend.

Whether shareholders who are resident to countries other than the United Kingdom are entitled to a payment from the Inland Revenue of a proportion of the tax credit in respect of dividends on such shares depends in general upon the provisions of any double tax convention or agreement which exists between such countries and the United Kingdom. Persons who are not resident in the United Kingdom should also consult their own tax advisers on the possible applicability of such provisions, the procedure for claiming payment and as to what relief or credit may be claimed in the jurisdiction to which they are resident for such tax credit.

The Company has not since its incorporation been engaged in and is not currently engaged in any litigation or arbitration of material importance nor, so far as the Directors are aware, is there are alligation or claim of material importance pending or threatened against the Company.

(b) Save as disclosed herein there has been on significant change in the trading or financial resition of the Company since its incorporation. Price Waterhouse have given and have not withdrawn their written consent to the issue of this document with the inclusion herein of their Accountants' Report ser out above to the form and context in which it is included.

(d) It is the intention of the Directors to to conduct the affairs of the Company that it satisfies the requirements for qualification as an investment company had down in Section 41 of the Companies Act 1980 and the Company has given notice to the Registrar of Companies of its intention to carry on business as an investment company pursuant to that Section.

The expenses of and incidental in the Offer for Sale and listing of the ordinary shares and warrants (including capital duty, registration and listing fees, the costs of princing, advertising and distributing this document, legal and accommancy fees) are estimated an amount to £321,000 (excluding value added tax) and are payable by the

The promoter of the Company is LBI. Save as disclosed in paragraph 5 above, on amount or benefit has been paid or given to LBI since the incorporation of the Company and none is intended to be paid or given, other than in respect of fees for services which may be rendered in the future.

The principal place of business of the Company is at 40-66 Queen Victoria Street, London EC4P 4EL. The Company does not have nor has it had since its

incorporation any employees.

Each dividend on the ordinary shares will be paid to those holders of ordinary shares on the register of members on the record date for such dividend. Such record date will normally be 6 to 8 weeks before the dats of payment.

The Offer for Sale is made by LBI which is a wholly-owned subsidiary of Lloyds Rank Pic. 12,500,000 ordinary shares of 50p each in the Company are being offered for sale at the offer price of 100p per share payable in full on application including a premium of 50p over the nominal value of 50p. LBI is registered in England (registered number 994963) and its registered office is at 40-66 Queen Victoria Street, London EC4P 4EL.

It is expected that the ordinary shares and warrants will be admitted to listing on 6th February. 1985, that fully paid renounceable letters of acceptance will be posted to successful applicants under the Offer for Sale on 12th February, 1985 and that dealings in the ordinary shares (with warrants attached) will commence on 13th February, 1985. (k) Arrangements have been made for the shares now being offered for sale to be registered by the Company free of stamp duty in the names of the successful applicants or the persons in whose favour letters of acceptance have been renounced provided that, in cases of renunciation, letters of acceptance (duly completed to accordance with the instructions contained therein) are lodged for registration not later than 3 p.m. on 22nd March, 1985. Share and warrant certificates will be posted not later than 19th April, 1985.

Documents Available for Inspection . Copies of the following documents will be available for inspection at the offices of Linkhaters & Paines, Barrington House, 59/67 Gresham Street, London EC2V 7JA during normal business hours on any weekday (Saturdays and public holidays excepted) for 14 days from the date of this document: (a) the Memorandum and Articles of Association of the Company;

(b) the report from the Auditors and Reporting Accountants set our above; (c) the consent referred to in paragraph 8(c) above; and

(d) the material contracts referred to in paragraph 6 above.

DATED latFebruary, 1985.

82 Mount Pleasant Road, Timbridge Wells TN1 IRP

Numbers of ordinary shares (with warrants attached) which may be applied for plications must be made on the application form below to accordance with the terms reof, and must be for a minimum of 200 ordinary shares (with warrants attached) in the appany (referred to below as "shares") and in the following multiples:

Applications for not less than 200 shares and not more than 1,000 shares: in multiples of 100 shares

Applications for over 1,000 shares and not more than 5,000 shares: Applications for over 5,000 shares and not more than 20,000 shares: Applications for over 20,000 shares and not more than 50,000 shares:

Applications for over 30,000 states:

2 Submission of Application Forms and Payments

Each application form astest be accompanied by a separate cheque or bunkers' draft

for the full amount payable on application and be forwarded or handed in to Licyda

Rank Pic, Registrar's Department, Issue Section, 111 Old Broad Street, London

EC2N IAU, so as to arrive not later than 10 a.m. on Thirtsday, 7th February, 1965.

Cheques and bankers' drafts, which must be drawn to Sterling on a branch to the United

Kingdom, the Channel Islands or the Isle of Man of a bank which either is a member of

the London or Scottish Cheering Houses Association or which has arranged for its cheques

and bankers' drafts to be eleared through the facilities provided by the members of those

Clearing Houses and must bear the appropriate sorting code number to the top right hand

corner, must be made payable to "Lloyda Bank Pic" and crossed "Not Negotiable" and

must represent payment in full at the application price. Photostat copies of application

forms will not be accepted.

5 Introductory Commissions Payable
A commission of ½ per cent. (plus value added tax) will be allowed to recognized banks
and stockbrokers on accepted applications bearing their stamp and value added tax
registration number (if applicable). This commission will not, however, be paid in respect
of applications received from sub-underwriters of the Offer for Sale in the extent of their
respective sub-underwriting commitments.

4 Undertakings by Applicants

The right is reserved to present all cheques on receipt and to retain letters of acceptance and excess application memory pending elearance of applicants cheques. Due completion and delivery of an application form, accompanied by the necessary cheque, shall constitute an undertaking that the cheque will be benoured on first presentation; a provision to that effect is contained in the application forms. Lloyds Bank International Limited reserves the right in reject or scale down any application for shares and, in particular, to reject applications which in its opinion are multiple or suspected multiple applications and applications will be interocable ontil 13th February, 1985 and may only be revoked after that date to the extent that they have not been accepted prior to receipt of notice of revocation.

5 Conditions

Formal acceptance of applications will be effected by notification of the basis of allocation to The Stock Exchange. Acceptance of applications will also be conditional on the ordinary shares and the warrants being admirted to the Official List of The Stock Exchange on or before 13th February, 1985 (subject only to acceptance). Moneya paid in respect of applications will be returned if such admission is not granted by that date and in the meannine will be retained in a separate bank account. If any application is not accepted, or is scaled down, the application moneys or the balance thereof, as the case may be, will be returned by cheque through the post (in all cases without interest) at the applicant's risk. By completing and delivering an application form each applicant will be confirming that be is not relying on any information or representation to the Company other than as contained in the Offer for Sale document and accordingly be will be agreeing that on person responsible for such document shall have any liability for any such information or representation; be will also be agreeing that be is not entitled to exercise any remedy of rescission for innocent misrepresentation at any time after acceptance of his application.

6 Renounceable Letters of Acceptance
Fully paid renounceable letters of acceptance in respect of shares will be sent by post in successful applicants at their risk. It is espected that letters of acceptance will be posted an successful applicants on 12th February, 1985 and thet dealings will commence on 13th February, 1985. The last date for registration of renunciation is 22nd March, 1985; the warrants will thereafter be registered and will then (but not before) be transferable separately from the ordinary shares. Share certificates and warrant certificates will be despatched by 19th April, 1985. Pending the issue of certificates, instruments of transfer of ordinary shares or of warrants will be certified against the respective registers.

7 The Ordinary Shares and the Warrants
The ordinary shares now being offered for sale rank to full for all dividends bereafter declared or paid on the ordinary share expital of the Company. Successful applicants will receive warrants conferring, in respect of every 5 ordinary shares purchased under the Offer for Sale, the right to subscribe for 1 ordinary share. The warrants will be exercisable on 31st August in any of the years 1986 to 1995 inclusive at a subscription price of 100p

Laing & Cruickshank Piercy House, 7 Copthalf Avenue, London EC2R 78E and at the following offices of Lloyds Bank Pic: Old Bank, 1 Market Square, Aylesbury HP20 1TD

125 Colmore Row, Birmingham B3 3AD Birmingham B3 3AD 3 Sidney Street, Cambridge CB2 3HQ 113/115 George Street, Edinburgh EH2 4TF 147 High Street, Guildford GU1 3AG 52 Fing Street 55 Corn Street, Bristol BS99 7 LB 27 High Street, Cardiff CF1 1QZ 234 High Street, Excter EX4 3NL 6/7 Park Row, Leeds LSI INX 53 King Street, Manchester M60 2ES 102 Grey Street,
Newcastle npon Tyne NE99 1SM
38 Blue Boar Rew,
Salisbury SP1 1DB Old Market Square, Nottingham NG1 6FD 19/21 High Street, Southampton SO9 7AN

THE APPLICATION LIST FOR THE ORDINARY SHARES (WITH WARRANTS ATTACHED) NOW OFFERED FOR SALE WILL OPEN AT 10 A.M. ON THURSDAY, 7th FEBRUARY, 1985 AND MAY BE CLOSED AT ANY TIME THEREAFTER.

This application form when completed must be forwarded or hundred in to Lloyds Bank Fit, Registrar's Department, Issue Section, 111 Old Broad Street, London ECON 1AU, together with a cheque/bankens' draft for the full amount payable, so as to be received not later than 10 a.m. on Thursday, 7th February, 1985 Photostat copies of application forms will not be accepted. A separate cheque or bankers' draft must accompany each application form. Full details of the application procedure are not out.

# GERMAN SMALLER COMPANIES INVESTMENT TRUST ple (Registered in England under Companies Acts 1948 to 1983 member 1879372)

Offer for Sale by Lloyds Bank International Limited

of 12,500,000 ordinary shares of 50p each (with warrants attached) at 100p per share payable in full on application

Applications must be for a minimum of 200 ordinary shares of 50p each (with	ſ
rarrants areached) in German Smaller Companies Investment Trust plc (referred to	ŀ
n this application, form as "shares") or for the following controles of shares: nultiples of 100 shares from 200 shares up to 1,000 shares; thereafter in multiples of	l
on shares not expecting 5,000 shares up to 1,000 shares; (be) of 1,000 shares not consider the first not consider	l
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exceeding 20,000 shares; thereafter in multiples of 5,000 shares and thereafter in multiples of 10,000 shares. To: LLOYDS BANK INTERNATIONAL LIMITED

It is enclose a chequeformizers' draft for the above-mentioned sum\*\*, being the full amount payable on application at 100p per share for the above stated number of shares, and live apply to purchase that number of shares. If Wa hereby undertake and agree in accept the same, or any lesser number of shares in respect of which this application may be accepted, upon the terms of your Offer for Sale document dated Lin February, 1985 and subject to the Memorindum and Articles of Associations of German Smaller Companies Investment Trust ple ("the Company"). If Wa hereby authorise you to send to mer'us a fully peid renounceable letter of acceptance for the number of shares in respect of which this application is accepted and/or a cheque for any moneya returnable to mer'us by ordinary first class post at my/our risk to the address first given below and to procure my/our name(s) to be placed on the registers of the Company as holder(s) of the said shares so far as they have not been effectively renounced. In consideration of Lloyds Benk International Limited agreeing that it will not, prior to 1st March, 1985, sell any shares the in bject of the Offer for Sale to any person other than by one of the procedures referred to therein, I/we agree that this application shall be irrevocable until 13th February, 1985 and that this paragraph is half constitute a collatered converte between me'us and Lloyds Benk International Limited which shall become binding upon despatch by post or delivery of this application form to Lloyds Bank Fic, Registrar's Department, Issue Section, 111 Old Broad Street, London BCZN 1AU, duty completed.

I'We declare that due completion and delivery of this application form, accompanied by a cheque/bankers' draft, constitutes an undertaking that such cheque/bankers' draft will be honoured on first presentation. I'We acknowledge that any letter of acceptance and any moneys returnable may be held pending clearance of applicants' cheques and/or bankers' drafts.

Forename(s) (in full). February, 1985. Please use BLOCK CAPITALS OR TYPE FOR NAMES AND ADDRESSES:

ALL JOINT APPLICANTS MUST SIGN AND GIVE NAMES AND ADDRESSES BELOW. In the case of a corporation this form should be signed by a duly authorised officer who should state his representative capacity. If this form is signed by power of attorney, such power of strongery or a duly certified copy thereof must accompany Please pin top left corner of cheque/ draft here

2. Signature Forename(a) (in full) 3. Signatur Porename(s) (in full)

4. Signature Forename(s) (in full) (Mr., Mrs., Miss or Title) Post Code NO RECEIPT WILL BE ISSUED FOR THE PAYMENT ON APPLICATION, but an ackno be forwarded through the post to due course, at the risk of the applicant(s), to the form of a fully paid renounceable letter of acceptance for all the shares applied for, or in the form of a fully paid renounceable letter of acceptance for the shares applied for and accepted and a cheque for any surplus application moneys, or by the return through the post of the application moneys.

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APPLICATION PROCEDURE

in toultiples of 5,000 shares in multiples of 10,000 shares Applications for over 50,000 shares:

8 Availability of Offer for Sale Documents and Separate Application Forms
Copies of the Offer for Sale document, which comprises listing particulars with regard to
the Company given in compliance with The Stock Exchange (Listing) Regulations 1984,
and of the separate application form are available, free of charge, 40:

The Company
40-66 Queen Victoria Street,
London EC4P 4EL
London EC4P 4EL
London EC4P 4EL

Letter of acceptance 2. Shares accepted

. Amount received on application Amount payable or shares accepted

\*Number of shares applied for

6. Return cheque No. . Split No. 8. Registration No.

Registrar's Department, Goring-by-Sea, Worthing, West Sussex BN12 6DA

\*\*Amount enclosed at 100p per share

9. Share certificate No.

10. Warrant certificate No.

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# WORLD STOCK MARKETS

				The State State of the State of
OVER-THE-COUNTER Nasdaq national market, closing prices, February 1	CANADA	1984/85 Feb. 1 Price	1984-85 Feb. 1 Price	1984/85 Feb. 1 Price
Sales   High Law Last Cling   Suck   Sales   High Low Last Cling   Hi	Sales   Stock   High   Low   Class   Class	Nigh   Low   3   229   202   Credit staft Pfd	High Low Lira  12,750 14,105 Banca Com*le 18,950 193, 39 Bastogi 1988 163 2,930, 1,418 Cestrale. 2,930 4,002; 3,511 Credito Varesine 4,400 4,526, 1,575 Fist 2,2425 32,500 22,055 Denerali (Assc.). 32,500 5,495 2,521 invest 2,825 78,500 40,500 talcoment 78,660 525 345 La Rinascent 5,825 5,500 5,855,0livett 6,500 4,075 2,464*Pirelli Co 4,550 2,885 1,419 Pirelli Spa. 2,885 1,636 5,1535 Spin 29*D 2,630 15,755 10,750 Toro Assc. 15,750 11,600 8,060 do. Pref. 11,495	Nigh Low Yen  1,270: 980 Alinomoto: 1,116 2,860; 1,830 Aline Electric: 1,190 1,410: 985 Aline Electric: 1,190 1,410: 985 Aline Electric: 1,190 1,410: 985 Aline Electric: 1,190 1,410: 980 Aline Electric: 1,190 1,190: 980 Aline Electric: 1,190 1,570: 1,070 Aline Electric: 1,360 1,570: 1,070 Aline Electric: 1,360 1,170: 940 Chegal Pharm. 1,050 709: 446 Citizan 550 757: 520 Dalel. 635 1,180: 878 Dalel. 1,580 300: 307 Electric: 1,780 1,860: 955 Elect 1,780 1,900: 9885 Fanisc 1,780 1,450: 500 Plui Elerik: 1,580 2,310: 1,450 Puli Film: 1,750 1,320, 758 Puli Film: 1,320 1,560: 1,080 Puli Film: 1,320
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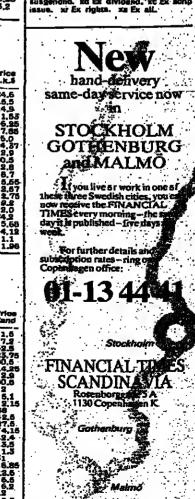
The Banker in the March issue will be publishing its annual study on the expansion of New York as an international banking centre. The study will again include the full listing of every foreign banking operation—Branch, Agency, Representative Office or Subsidiary—active at the end of 1984. Location, management, staffing and status are detailed in full.

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# WORLD STOCK MARKETS

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# Indices

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NEW YORK	DOM 10H	ES	10	94-85	fines (	ompil10		Feb.	Jan. 31	Jan. 30	Jan. 29	. 1984 • High	-85 Low
Feb. Jan. 1 31	Jan. , Jan. 50 29	Jan. 28	High	Low	High	Low	AUSTRALIA Áfi ord. (1/1:00) Metais & Minis. (1/1/96)	772,7 445,0	773,4 447,0	784.4 441.1	758.1 452.2	787,8 (811,64) 567,4 (611,64)	545,6   16/6 458,8 (7/1/85
eindustri is 1277.72 1286.7		•	1292.52 125/1.85) 74,47	(24.7)	7 1292,62 (29, 1/86	41,22 (2,7/32)	AUSTRIA Credit Aktien (1/1/82)	80,48	53,59	59,40	59, 16	60.40 (1/2/85)	<del></del>
H'me Bnds: 74,22 73,45 Transport 609,94 609,56			(30/1/85)	(25:5) 444.08	616.04 (50:1/88)	12.32	BELGIUM Brussels SE (1/1/80)	2114,28	2105.26	2100.57	2110,16	<del></del>	<del>'</del> -
Utilities 148,64 148,34	149,00, 148,9	0 148,39	149,93 . (18,12)	122.75	165.79 (20/4/88)	10.5	DENMARK Copenagen SE (5/1/65)		(u)	172,30	179,16	225.21(20/1/84)	158,44 (8/1/
Trading Vol 000-1 105,44 132,47	<u> </u>		<u>'                                    </u>	-	<u> </u> –	<u>; -</u>	FRANCE CAC General (81/12/82) and Tendange (28/12/84)	195.7 196.6	195.8 106.8	788.6 167.1	185,6 196,9	1 -198,6 (38) 1,85) 197,5 (24) (85)	155,6 15/1/8 100,0(28/12/
eDay's High 1269.77 (12)	Jan. 25 4,72	1269,72 Jan, 18 4,91	Jan		year ago	capprox 43	GERMANY FAZ Aktian (31/12/58) Commerzbank (1/12/58)		386,65 1161,5	395.31 1148.6	593.7B	482,73(18/1/85) 1171,1(22:1/85)	317.17 (25
STANOARD AND POORS	Jan. Jan		-	4-86		Comp'tn	HONG KONG Hang Seng Bank(51/7/64)	1856,28	1865,02				
1 61 Indust'is 199,95 201,05	200.75 200.5	28 3 198,50		187.74 (24.7)	111gh 201.05 (31/1/85)	8.82 (30/6/32)	FTALY Banca Comm Ital. (1972)	264,69	295,28	285.45	259,28	264,68 (1/2/86)	182.06 (2/1/6
Comp's'te 178,63 179,63	179,59 179,1	8 177,89	179.53 (31/1/85)	147,82	179,65	4,40	JAPAN** Nikkel-Dow (16/5/48) Tokyo 6E New (4/1/88)	11948,96 928,81		11988,6 : 928,18 :		11992,8(51/1/85 966,77,18/1,85)	
Industrial div. yield	Jan. 23 Ja 3,85	4,00	Jan, 9 4.15		3,76		NETHERLANDS ANP-CBS General (1870) ANP-CBS (ndust (1970)	197,8 186,8	198.9	165.0	192,2	197_0(1.2/05) 157,7(28/1/85)	146.B /23/
Industrial P/E ratio i	11.14	10.71	10,51	_}-	16,49		NORWAY Oslo SE 14/1/851	325,28	388,45	833, 17	:	\$35,45(\$1/1 <u>/8</u> 5)	
N.Y.S.E. ALL COMMON				s and F	alis Jan. 31	Jan. 50	SINGAPORE Straits Times (1986)	861,25	888.51	021,60	B 15. 38	1671,9 (8/2)	784.4 (18/1/8
Feb. Jan. Jan. Jan. — 1 61 30 29	1984-85	issues T Risos Falls	raded	2.014	2,038		SOUTH AFRICA Gold (1958) Industrial (1958)	=	819.6 875,1	(u1 (U)	814.7 880.4	1099.8 (19) 11)   1 (05.8 (26/8) ;	758,1 (24/1/8 853,5 (19/5)
183,28 188.75 103,85 103,43 1  51	13,75 86,13 (1/85) (24/7)	Vnchang New Hig New Lov	ed	449	430 165	400	SPAIN Madrid SE (28:12/94)	119,28	114.88	115,28	113.82	115,28(1/2/85)	199,00 28 12/
	b. Jan. Jai 1 31 50	i. Jan.		198 49h	4-85		SWEDEN Jacobson & P (11/58)	1481.56	1447.70	1482, 11	1429,65	1584,5 (8/2)	1502.99 (22/)
Metals & Minerals 215 Composite 257	9,5 2179,5 2179 5,4 2585,0 260	1,0 2177,8 4.0 2580,1	2524.4	12:184	1641.8 2079.7	125:71 (24/7)	SWITZERLAND Swiss BankCpn_i61/12/58	415.1	414.5	414.8	412.2	414,5(81/1/85)	554.5 (25 <i>/</i> 7)
	.14 151.46 : 182. W YORK AC			( <b>30</b> /1/85	100.86	(24/6)	WORLD Capital Intl. (11/1/79)	_ ;	157.1	196,9	195.7	197.1 11 <i>121</i> 861 .	165.2 (14/17
Friday Stocks C	Change closing on price day 2012 + 12 1 431 + 13 1 391 - 1 351 + 21	Uncal Cr Southern Pac Gas P Svc N Amer Ex	E	1,367 1,345 1,345 1,343	Clesing price 100 407 600 184 ,000 163 ,900 244	day -13 + 3 - 1	** Saturday Janua Base values of all in 500, NYSE All Common and Metals—1,000, Toro † Exclusive bonds, † Financials and 20 Transp	dices sw —50; St eno Indi 00 Indus	e 100 ex lendard lees bes strisla.	capt Au and Pot ad 1975 \$ 400 II	egralis A ors—10; i and M ndustriel	and Toronto	Composition 4/1/83

These securities have been sold outside the United States of America and Japan. This announcement appears as a matter of record only.

NEW ISSU



30th January, 1985

# SHIKOKU ELECTRIC POWER COMPANY, INCORPORATED

U.S.\$50,000,000 .11½ per cent. Notes 1990

Issue price 100 per cent.

Nomura International Limited

IBJ International Limited

Union Bank of Switzerland (Securities) Limited

Algemene Bank Nederland N.V. Banque Paribas Capital Markets Daiwa Europe Limited

Manufacturers Hanover Limited
Mitsubishi Finance International Limited

Morgan Guaranty Ltd
Société Générale
Sumitomo Finance International
S. G. Warburg & Co. Ltd.

BankAmerica Capital Markets Group Credit Suisse First Boston Limited Deutsche Bank Aktiengesellschaft Merrill Lynch Capital Markets Morgan Grenfell & Co. Limited The Nikko Securities Co., (Europe) Ltd. Société Générale de Banque S.A.

Swiss Bank Corporation International Limited
Westdeutsche Landesbank Girozentrale

Yamaichi International (Europe) Limited

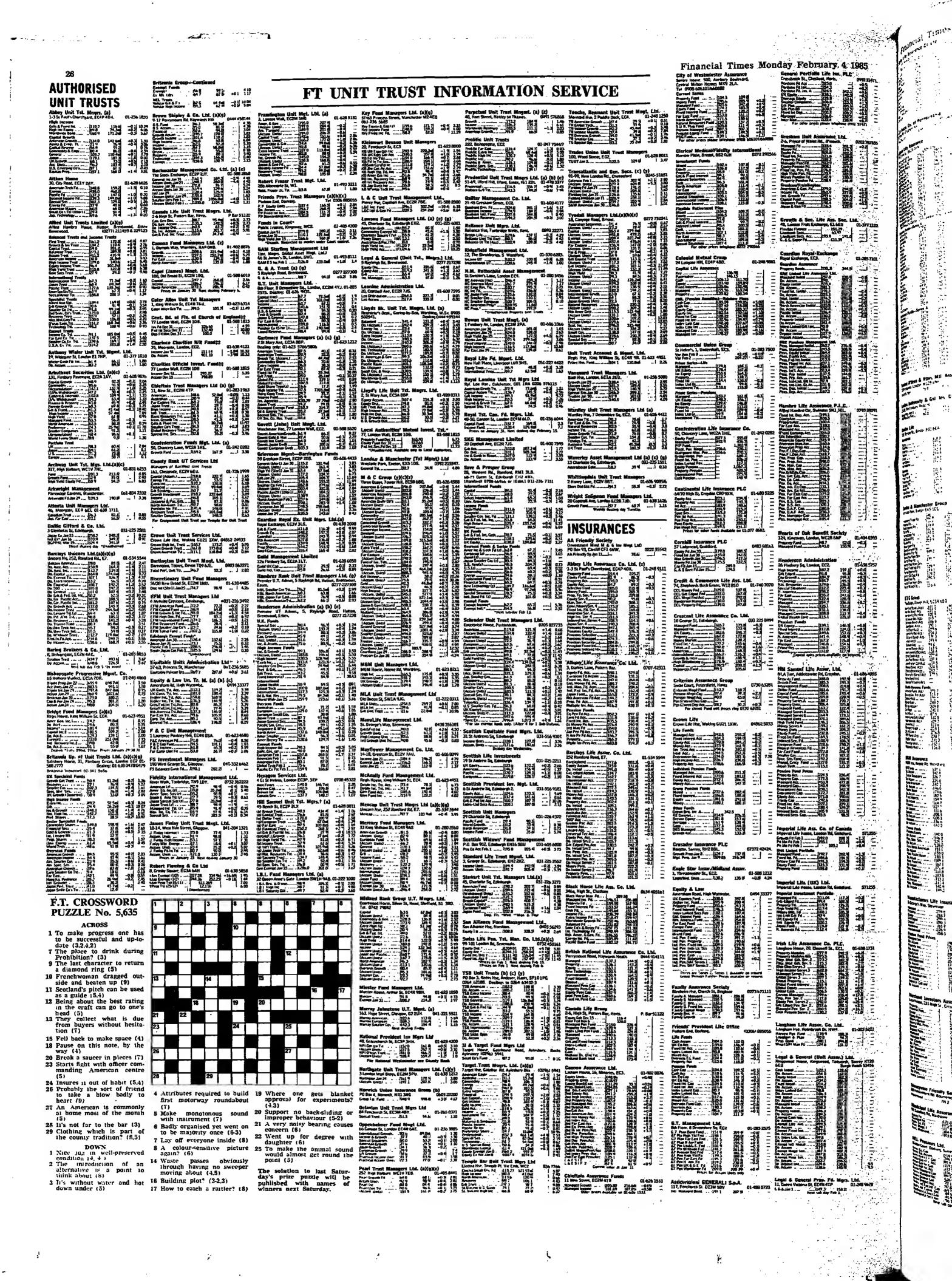
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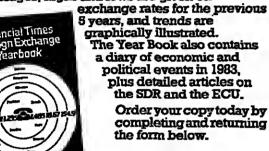
# CURRENCIES, MONEY and CAPITAL MARKETS

# **Financial Times Foreign Exchange** Year Book

Data for January — December 1983

- Daily spot rates for 1983
- 5-year averages, highs and lows
- Graphic trends and indicators
- Diary of events and explanatory articles

The FT Foreign Exchange Year Book brings together in one volume the daily data for 1983, covering the main exchange rates against the £ and the \$; cross rates of the main trading currencies; selected eurocurrency rates; and London money rates. It also contains weekly data on world interest rates, and monthly highs, lows and averages against the £ and \$. Rates for the working days when the FT was not published are also included. Annual averages, highs and lows are given on



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FINANCIAL FUTURES								
LONDON	U.S. TREASURY BONDS \$% \$100,000							
THREE-MONTH EURODOLLAR \$1m	Close High Low Prev							
points of 100%	Juna 71-13 72-00 71-20 72-11							
March 90.85 91.03 90.85 91.1								
Sect. #9.75 90.00 89.75 90.1	5 · · · · · · · · · · · · · · · · · · ·							
Dec 89.30 89.52 89.30 89.77 March 86.92 - 89.3	CHICAGO							
Est volume 10,402 (5,246) Previous day's open int 13,271 (12,779)	U.S. TREASURY BONDS (CBT)							
THREE-MONTH STERLING \$500,000	8% \$100,000 32nds of 100% Letest High Low Prev							
points of 100%	March 50.78 91.08 90.76 91.07							
Adamsh 87.87 88.06 87.70 88.70	Sept 89,72 89,96 89.86 90.03							
June 88.68 88.90 25.60 00.50	Dec 89.26 89.50 89.20 89.57 March 88.88 89.10 88.83 89.19							
Dec 89.30 89.35 99.20 89.00	June 88.56 88,67 88.45 88.58							
1 707 (3 (66)								
Previous day's open int 6,651 (5,564)	U.S. TREASURY SILLS (IMM) Sim points of 100%							
20-YEAR 72% NOTIONAL GILT 280,000 32nds of 100%	Latest High Low Prev							
Close 18th Low Prev	. March 91.73 91.85 91.71 91.90							
June 103-09 — — 104-02	Sept 90.86 91.06 90.82 91.06							
Sept 106-23 — - 707-13	March 90.12 90.15 90.08 90.32							
100-Z	June 89.85 90.00 89.80 90.04 8ept 89.61 89.76 89.58 89.81							
Est volume 2,871 (2,872) Previosa day's open int 5,500 (5,755)	Dec 89.38 - 29.38 89.58							
Basis quote (clean cash price of 1397) Transury 2003 less equivalent price of	CERT. DEPOSIT (IMM)							
near futures contract) —10 to psu (32nds)	Tim points of 100%							
STERLING £25,000 \$ per £	March 91.10 91.27 91.08 91.38							
Close High Low Prev	June 90.62 00.76 90.54 90.89							
March 1.1235 1.1237 1.1210 1.1245 June 1.1155 1.1155 1.1140 1.1165	Dec 89.62 89.67 89.58 89.51							
Sept 1.1108 1.1120 sst volume 942 (851)								
Previous day's open int 3,856 (4,757)	\$1m points of 100%							
DEUTSCHE MARKS DM 125,000 \$ per	Latest High Low Prev							
Close High Low Prev	June 71-12 71-25 71-06 72-03							
March 0.3160 0.3163 0.3164 0.3166	Dec 69-31 70-08 69-24 70-18							
Est volume 33 (8) Previous day's open int 187 (187)	March 69-13 69-16 69-11 69-31							
EWISS FRANCS SWFT 125,000 \$ per	Sept 68-17 68-20 68-15 68-31							
SwFr Close High Low Prev	March 67-28 67-30 67-23 68-06							
March 0.3722 — — 0.3751	June 67-19 67-20 67-13 67-27							
Fat volume mil (n6)	STERLING (IMM) Se per £ .							
Previous day's open int 121 (111)	Latest High Low Prev							
Close High Low Prov	June 1.1070 1.1180 1.1065 1.1120							
March 0.3910 0.3910 03905 0.3933	Sept. 1.1025 1.1125 1.1010 1.1076							
lune 0.3936 0.3936 6.3932 — Est volume 106 (nll)	Dec 1.1000 1.1090 1.1005 1.1050							
Previous day's open Int 176 (178)	GNMA (CBT) 8% \$100,000 32nds of 100%							
FT-SE 100 INDEX 525 per full index point	Letest High Low Prev							
Close High Low Prey	March 69-04 69-18 69-04 69-21							
March 125.60 127.75 126.45 127.75 June 127.00 127.35 127.00 128.00	Come 67.77 69.01 67.77 68-12							
Cant 227.40 128.40	Dec 67-09 - 67-25							
est volume 451 (461) Previous day's open int 1,207 (1,132)	Sept 65-29 66-03 65-29 66-15							
	OPI D INTEREST RATES							
WEEKLI CHANGE IN N								
Feb. 1 change	Feb. 1 change							
LONDON	Prime rates 101e Unah'd							
7 day Interbank 14 +8	Federal funds 854 +15_							
Frenche Bill Tender 11,8180 +0,281								
Band 1 81/1s 1576 +2	S Meh. C O 8,55 +0.45							
Band 3 Bills 1356 +8	Lombard 0.0 +0.5 -							
Band 3 Bills   1356   +8 Band 3 Bills   1356   +1 5 Mth. Treasury Bills   1216   +1 1516   +1 6 Mth. Bank Bills   1214   +1 17	One Mith. Interbank 5.525, —0.150 Three month 5.825 Unch'd							
	PARIS -							
Doe month Bills 0.21875 -0.882	5 - Acce 1-4							
Three month Bills   0,04373   Differs	Three month 104 +18							
BRUSSELS	Dog month   1545  +16   E							

Est volume 33 (8) Previous day's open	int 187 (	187)	March	69-18 66-30	69-		
SWISS FRANCS SWEY	Fr 125,000	\$ per	Sept	68-17	68-		5 69-31
Close Hi March 0.3722	gh Low	Prev 0.3751	March	67-28 67-19	67. 67.	30 67-22	68-06
June 0.3754 Est volume nil (n6)		0.3783	STERLE	NG (IMI	1) \$	per £ .	
Previous day's open	int 121 (			Latest	Hi	ah LOT	Prev
JAPANESE YEN Y12.	5m \$ per	Y100	March	1.1145	1.12	50 1.112	
Close Hi	ah Low	<b>Lydra</b>	June	1.1070	1.11		
March 0.3910 0.39 June 0.3936 0.39	36 6,3932	0.3933	Sept	1.1025 1.1000	1,10		
Est volume 106 (nil Previous day's open	Int 176 (	116)	GNMA	(CRO	_		
FT-SE 100 INDEX E			8% \$10	0,000 32	nds o	f 100%	
point	<b>,</b> ,_			Latest	Hī	gh Low	
Close His	ah Low	Prev .	March	69-04	89-		
March 126.60 127.		127.75	June	68-15	66-		
June 127.00 127.	35 127.00	128.00	Sept	87-27 67-09	66-	01 67-2	
		128.40	June	66-10	05		
Est volume 451 (461 Previous day's open	·)	es	Sept	65-29	66-		
WEEKLY CH			ORLD	INT	RE	ST R	ATES
	Feb. 1	change	}			Feb. 1	change
LONDON	14	+8	Prime r			1016	Unah'd
Base rates	14	+2	Federal			834	
7 day interbank Smith interbank	1254	+**					1+16
Treasury Bill Tender			3 Mth. 7	reasury	Bliis	8,18	+0.55
	11.8180	+0,2918	8 Mith. 7	reasury	Bills	8,30	+0.55
Band 1 Bills	1.570	+0,2918	8 Mth. 7 3 Mth. 0	reasury	Bills	8,18 8,30 8,55	1+0,55
Band 1 Bills Band 2 Bills	1870	+0,2918	8 Mith. 7	reasury 0	Bills	8,30 8,55	+0.65 +0.43 +0.45
Band 1 8ils Band 2 Bils Band 2 Bils	1876 1834 1864	+0.2918 +2 +2 +2	8 Mth. 7 5 Mth. 0 FRANKF Lombar	reasury O URT	Bills	8,50 8,55 0.0	+0,55 +0,45 +0,45
Band 1 Bills Band 2 Bills Band 3 Bills 3 Mth. Treasury Bills	1876 1834 1866 184	+0.2918 +2 +2 +2 +8 +12	8 Mth. 1 5 Mth. 0 FRANKF Lombar One Mti	reasury 0 URT d 1. Interb	Bills	8,50 8,55 0.0 5,625	+0,55 +0,45 +0,45 +0,5 -0,150
Band 1 8ils Band 2 Bils Band 2 Bils	1876 1834 1864	+0.2918 +2 +2 +2	8 Mth. 7 3 Mth. 0 FRANKI Lomban One Mti Three n PARIS	reasury 0 0 URT d 1, interb	Bills enk	8,50 8,55 0.0	+0,55 +0,45 +0,45 +0,5 -0,150 Unch'd
Band 1 Bills Band 2 Bills Band 3 Bills 3 Mth. Treasury Bills 1 Mth. Bank Bills	1879 1834 1856 1819 1814	+0.2918 +2 +2 +8 +12 +13 +14	8 Mth. 7 3 Mth. 0 FRANKI Lomban One Mti Three M PARIS Interver	PRESSURY CO FURT d L. Interb conth	Bills ank	8,50 8,55 0.0 5,625 5,825	+0,56 +0,43 +0,45 +0,5 -0,150 Unch'd
Band 1 Bills Band 3 Bills Band 5 Bills 3 Mth. Treasury Bills 1 Mth. Bank Bills 5 Mth. Bank Bills	1376 1334 1356 1816 181	+0.2918 +2 +3 +8 +12 +12 +14	8 Mth. 3 Mth. 6 FRANKI Lombar One Mti Three n PARIS Interver	URT d i. Interb south	Bills enk	8,50 8,55 0.0 5,525 5,825	+0,55 +0,45 +0,45 +0,5 -0,150 Unch'd
Band 1 Bills Band 3 Bills Band 3 Bills 3 Min. Treasury Bills 1 Min. Bank Bills Min. Bank Bills TOKYO Doe month Bills	1876 1314 1866 1818 1814 1814 0.21875 8,84375	+0.2918 +2 +3 +4 +1- +1- +1- -0.9826 Unch'd	8 Mth. 1 5 Mth. 0 FRANKF Lombar One Mti Three m PARIS Interver One Mti Three m	FURT d 1, Interb south ation Rat 1, Interb	Bills enk	8,80 8,65 0.0 6,625 5,825 101 <sub>2</sub> 101 <sub>2</sub>	+0,55 +0,45 +0,45 +0,5 -0,160 Unch'd Unch'd +18 +18
Band 1 Bills Band 2 Bills Band 3 Bills 5 Mth. Treasury Bills 5 Mth. Bank Bills 5 Mth. Bank Bills 6 Mth. Bonk Bills 7 Mth. Bills 7 Mth. Bills 7 Mth. Bills 7 Mth. Bills	1570 1314 1356 1218 1518 1514 1814 0.21875 8,34375	+0.2918 +2 +8 +8 +12 +13 +13 -0.8826 Unch'd	8 Mth. 7 3 Mth. 0 FRANKI One Mti Three M PARIS Interver One Mti Three M MILAN Dne more	FURT d i, interb south ation Rat i, interb south	Bills ank	8,55 8,55 0.0 5,625 5,835 1012 1012	+0.65 +0.45 +0.45 +0.5 -0.150 Unch'd +1g +1g +1g
Band 1 Bills Band 2 Bills Band 3 Bills Band 3 Bills 5 Mth. Treasury Bills 6 Mth. Bank Bills 70KYO Dhe month Bills 6RUSSELS 6RUSSELS	1876 1314 1866 1818 1814 1814 0.21875 8,84375	+0.2918 +2 +3 +4 +1- +1- +1- -0.9826 Unch'd	8 Mth. 1 5 Mth. 0 FRANKI Lomban One Mti Three m PARIS Interver One Mti Three m Mti ANILAN Dne more	FURT d i, interb south ation Rat i, interb south	Bills ank	8,80 8,65 0.0 6,625 5,825 101 <sub>2</sub> 101 <sub>2</sub>	+0,55 +0,45 +0,45 +0,5 -0,160 Unch'd Unch'd +18 +18

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London-bend 1 bills	mature is up to	14 days, band 2 bill	15 to 33 days	, and
hand 3 bitle 34 to 63	dave Rates Quo	ted mpresent Bank (	it England Duyi	ng or i
selling rates with the rates in the domestic	money market	end their respective	changes darin	g the
wesk, Band 4 bills 11	The state of the state of	4		

# Sterling and dollar firm

Sterling ended the week lightly firmer than it began, but this was more the result of optimism about the majority agreement to a new price structure by ministers meeting in Jeneve from the Organisation of cotroleum Exporting Countries, rather than the somewhat unfortunate rise in London interest rates.

Rates no sooner went up than they appeared to be coming back down again, although by Friday the mood of eupboria around mid-week had been tempered, and the market was no longer expecting a cut back in bank base rates before tomorrow's mid-January money supply figures.

On Thursday money market

no longer expecting a cut back in bank base rates before tomorrow's mid-January money supply figures.

On Thursday money market rates were clearly discounting a tredoction of 1; per cent to 12; per cont in base rates, but by Friday it appeared the reduction was more likely to be 1 per cent to 13 per cent.

1.40 cents on the week.

Attention was generally focused on the pound, but the dollar moved up quietly, and by the end of the week broke through DM 3.18 and was threatening DM 3.20 in New York, despite a rise in the german Rundesbank Lombard rate by i per cent to 8 per cent, and an increase in the Dutch

	Day's	Olean		%	Three	%
<u> </u>	spread	Close	One month .		. months	р
	1.1220-1.1290	1.1240-1.1250	0.40-0.36c pm		1.04-0.96pm	.3.50
ada	1,4918-1,4995	1.4910-1.4950	0.42-0.33c pm		1:06-0.88pm	2.50
hlad.	4.037-4.0674	4.03%-4.04%	24-2c om	6.49	<del>®</del> -5′epm	0.94
nlum	71.42-71.75	71.45-71.55	15-9c pm	2.01	38-27pm	1.87
mark	12.72%-12.77%	12,724-12.73%	2%-13 om pm		€ 44pm	1.78
nd	1.1481-1.1521	1.1600-1.1510	0.05-0.22c dis	-1.41	0.46-0.80d	2.19
Ger.	3.50 -3.50	3.567-3.572	21-17-pf pm		6- <del>5'zo</del> m	6.44
1sgut	193.80-195.50	133.85-195.16	190-475c pm	. 20.21	396-1266 pm	17.07
in	196.60-196.95	198.60-197.40	15c pm-16 dle		10-65dls	-0.75
,	2,197-2,2104	2,198 <sup>1</sup> -2,199 <sup>1</sup> 2	2-5 fire dis		11-16dis	-2.46
way	10.312-10.37	10.317-10.327	1½-½are pm		2- <sup>1</sup> 2pm	0.48
1CB	10.89%-10.95%	10.90 - 10.91 -	23-13s pm		Sy-Papm	1.81
nebi	10.18-10.234	10.18-10.19	3-13-ore dis		24-37-dis	<b>1.2</b> 0
Bn	2874-2894	2887-2897	1.64-1.52y pm		4.47-4.29pm	
tria	25.03-25.25	25.09-25.18	131-111-gre pm		36 - 32 pm	5.49
tz.	3.02-3.04	3.03 - 3.04	2-15c pm	7.15	2 <del>, 2, 2, 1</del> 6W ·	7.16
Bel	lolan mes la G	or convertible	francs. Financia	I franc	71.50-71.60	
CI	month forward	d dollar 1.55	.45c pm, 12-mc	ath 2.	20-2.00c pm.	٠.

Feb. 1			1 .	. 4
	2		<u> </u>	Note Rates
rgentine Peso.	251,74-200.0		Austria	80,00-20,30
ustralia Dollar.	4'021-4.545.88	3.567-3.585	Beigium Denmark	71,00-78,30 12,80-10,70
in land Markka	7.4780-7.5065	5,6250-6.6540	France Germany	10,88-11,00 3,56-3,59
long Kono Dollar	8,7925 8,8050	7 .8020-7.8050	Italy	2180-2230
ran Rial	0.5450-0.3460	94.50° 0.30898-0.80610	Vapan	288 001 4.021-4.061
uxembourg r	71.45.71.00	63, 8068,00	Norway	10,29-10,38
ew Zaaland Olr.	8,4010-0,4060	8.1080 2.1806	Spais.	1941-205
noanore Dollar	0.4920-9.4870	(A.1110-2.1130	Switzerland	10.18-10.00 3.08-3.05
th African Rand	2.2376.2.2455	1.9840-1.9920	United States	1,12-1,14 277-294

	Ecu central rates	Currency amounts against Ecu February 1	% change from central rate	% change adjusted for divergence	Divergence limit %
Beigiss Franc	44.9006	44.5370	-0.81 ·	+0.06	±1.5428
Desiah Krone	8.14104	7,93810	-2.5Z	-1.65	主1.8421
German D-Merk	2.24184	2.22431	-0.76	+0.09	土1.1463
French Franc	6.87456	8.79767	-1.12	-0.25	土1-3659
Outch Guilder	2,52506	2.51584	-0.40	+0.47	±1.5165
Irieh Punt	0.72589	0.715032	1.46	-0.58 .	±1.6671
tallan Lira	1403.49	1371.27	-2.30	-271	±4.0611

11.00 am February I. Prev. close

STERLING EXCHANGE RATE

INDEX (Bank of England)

Feb. 1 Previous

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est and radwi

FORWARD RATES AGAINST STERLING

BANK OF	ENGLA	ND TE	REASURY BI	LL TEN	IDER
	Feb. 1	Jap. 25		Feb. 1	Jan. 25
ils on offer	£100m £811,796m £100m £97,945°	£525,4m £100m	Top Accepted rate of discount. Average rate of discount Average yield	11.6150% 18.17%	11,5515 <u>y</u> 11,5034 <u>y</u> 11,66 <u>y</u> 2100 <sub>m</sub>

DOLLAR SPOT-FORWARD AGAINST DOLLAR

1	Day's spread	Close	One mouth	7. p.s.	Three months	P.
	1.1220-1.7290	1.1240-1.1290	8.40-0.38c pm		1.04-0.96pm	
ındt	0.9775-0.9625	0.9775-0.9785	D.48-0 42c pm		1.34-1.28om	
ada	1.3258-1.3285	1,3275-1,3280	0.12-0.15c dis	-1.22	0.35-0.40d	-1.13
ilnd.	3,5785-3,6000	3.5915-3.5925	D.69-0.66c pm	2.26	2.19-2.16pm	2.42
iam	63.56-63.06	63.55-63.65	12-13c die	-2.36	34-38dis	2.20
mark	11.29-11.34	11.313-11.32%	1.60-2.10ore dis	-1.96	54-5 dis	-1.84
Ger.	3.1635-3.1795	3.1780-3.1790	0.68-0.63pf pm ·	247	2.19-2.14mm	.: 2.73
ugal	1734-1747	1731-174	225-475c die	-24.14	600-13604	-22.41
in	175 18-175.75	175.25-175.45	52-52c die			-4.22
;	1951 - 1958	13661-1957	9-85 lire die		30-30 dis	-6.15
	9.137-9.187	0.174-9.174	1.90-2.40ore dis			-3.22
WAY		9.70 - 9.71 -	1,35-1.45c dis			-1,36
GB .	9.62 -9.71		3.60-4.10ore dis	-0.10	10.80-11.30d	4 99
den_	9.034-9.074	8.062-9.06	0.53-0.48y pm	2 75	1.67-1.62pm	2.56
n i	266.35-256.75	256,65-256.75				
tria	22.27 - 22.32 -	22.24-22.26	3.60-3.10gro pm		12-(0pm	1.97
tz.	2.6790-2.7040	2.7030-2,7040	0.74-0.70c pm		2.31-2.25pm	3,38
+ UK	and ireland a unts apply to	m queted in U	.S. currency. F	brward	premiums a	nd .

CURRENCY	MOVE	MENTS	CURI	REN	CY RA	TES
Féb. 1	Bank of	Morgan	Fob. 1		Speniel Drawing Hights	Europ'n Currency Unit
	Index.	Changes	. Sterling		0.865694 0.974074	
Starling	71.7 146.7 90.8 110.5 88.8 70.0 120.4 130.1 109.9 63.8 46.6 163.0	-18.8 +32.0 -5.5 +3.6 -10.1 -4.8 +6.3 +6.3 +0.9 -10.0 -13.8 +0.7	U.S. 8 Canadian 8 Austrie Sch. Beiglan Fr Danish Kr Dmark. Golider. French Fr Yen Norway Kr Span'n Pts. Sweet Fr Greek Drch. Irish Punt.	9.75 41g 11 7 41e 51e 101g 5 8 12 0 4	21,7063 61,9310 11,0266 3,09026 8,49644 9,45339 848,827 8,92544 170,950 8,61987	0,929528 15,6905 44,6370 7,93610 2,83431 2,51584 6,79767 1671,27 179,613 6,43431 128,989 U,34706 1,68787 1,68787

**EXCHANGE CROSS RATES** 

								<del></del>		
Feb. 1	Pound St'rling	U.S. Dollar	Deutsche M'k	1, behave Agu	FrenchFranc	Swick France	Dutch Guild	takan Lira	Carneta Dollar	Belgian Frank
Pound Starling U.S. Dollar	o.889	1,125	3,570 3,179	268.8 256.7	10.91 0.710	3,040 0,704	4,048 8,598	2199 1907	1,495	71.60 05.60
Geutscherr rk	0,280	0,315	10.86	60,88	3,056	0.850	1.182	615.0	0.410	20.03
Japaness Yen 1,000	3,463	3.894		1000.	37,78	10.53	14.00	7010	5.171	247.6
French Franc 10	0,017	1.081	3,278	264.7	3.589	2.786	3,704	2016.	1,368	66.54
Swiss Franc	0,528	0.370	1,174	94.96		1.	1,330	723.4	0,491	. 33.52
Dutch Guilder	0,247	0.278	0.885	71,43	6,690	0.750	1,638	544.0	0.360	17.69
Italian Lira 1,000	0,465	0.511	1.826	182,3	4,961	1,382		1000	0.072	32.51
Canadian Dollar	0.670	0.708	2,581	105.4	7,507	2.036	2.708	1473	2,088	47.89
delgian Frans 190	1,399	1,578	4,993	405.8	10,26	4.252	0.654	3076		100,

EURO-CURRENCY INTEREST RATES (Market closing rates)

]	Feb.1	Sterling	u.s. Dokar	Canadian Dollar	Autob Gulider	Owies Franc	D-mark	Franch Franc	italian Lira	Belglar Cotrv.	Franc Fin.	Year	Menich Krone
ı	Short term 7 days' notice Month Thres months ix months One year	10 131	813 814 856 854 814 815 814 815 814 815	05g-101g 85g-93g 01g-101g 91g-919 91g-101g 10-101g	84 6% 84-0% 65 55 06-54 65-68	2 24 34 35 04 54 04 64 54 64	678 0 678-6 678-678 678-678 678-678	10-3-10-3- 10-3-10-3- 10-3-10-3- 10-3-10-3-	14-15 144-1614 1456-1518 1476-1036 15-1036 1014-1078	10% 114	11-1114 1078-1118 1034-11 1034-11 1044-11 1034-11	0.61g 61g 61g 61g 61g 61g 0.8g 61g 63g 61g 61g	914-956 1114-10 1154-1176 1156-1874 1114-1114

sien \$ (closing mass in Singapore): Short-term 82,-32, per cent: asven days 83,-82, per cent: oss month 81,-83, per cent: three months 82,-52, per cent: onths 83,9 per cent; one year 92,93, per cent. Long-term Eurodellam: two years 102-102, por cent; three years 102-11 per cent; four years 112-112, per 6ve years 112-112 per cent nominal. Short-term rates am call for U.S. dollars and Japoness yen; others two days' actics.

# **MONEY MARKETS**

# An erratic week

After a very creatic week, as far as the London money market was concurred, there was no farm indications how far been rates would be cut by Friday's close. The week began extremely badly, with base rates rising to 14 per cent from 12 per cent, on continued contern about stending's decline on the foreign exchanges. There was also an air of aer-yousness about the Government's vousness about the Government's view on inflation, amid fears that more extention had been

UK clearing banks base lending rate 14 per cent since January 28.

turned towards the problems of unemployment and the rate of intemptoyment and the result of the seconomic growth.

In early trading on Tuesday interbank three-month money touched a peak of 14-14; per cent as the meeting of ministers. from the Organisation of Petro-leum Exporting Countries threat-ened to break up in disarray in

Geneva.

There was therefore a threat of even higher base rates, but as a calmer tone returned to the Opec meeting, and eventual majority agreement to a new price structure, money market

FT LONDON INTERBANK FIXING

(11.00 a.m. February 1) 3 months U.S. dollars

6 months U.O. dollars bld 9 1/18

The fixing rates are the arithmetic season, rounded to the mearest one sixteenth, of the bid and offered twices to \$10m quoted by the market to five reference banks at 11 are each marking day. The banks are National

### MONEY RATES

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LONDON MONEY RATES Discount Houses Deposit and Bill Rafes 184 184 184 184 15%-14% 15% 19% 19% 12% 12% 134, 134 194, 19 19

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# FINANCIAL TIMES SURVEY

# ESE

THE AUTOMOTIVE ALTERNATIVE

The wide variety of markets, from vehicles to marine and industrial use, has spurred intense research to improve the engines. Continued overproduction is likely to depress prices and margins for some time

By lan Rodger

ONCE AGAIN, the world diesel engine industry appears set for a period of significant growth. And again, the basis for optimistic forecasts is the belief that diesels will become in-creasingly popular, among car and sm. l truck and van

Apart from that bope, bow-ever, this large international in-dustry is not in very good shape. Total world production of diesel engines last year prob-ably reached close to 10m units, app about 5 per cent from 24m up about 5 per cent from 9.4m units in 1983, but strong growth in the automotive sector more than offset weakness elsewhere. And capacity far exceeds de-

The fall in sales to other markets is not due to any de-cline in the acceptability of diesels, but because of the con- 30 hp-500 hp range, for use in tinuing slump in demand for vehicles and industrial and conthe machines in which they are struction equipment, installed, such as aggicultural Unfortunately for diesel and construction equipment, makers, almost all of these ships and railway locomotives. One of the diesel industry's strengths in the past bas been its variety of markets. Diesels

tives. Usually, some markets would be strong even if others were weak.

The largest single market for diesels is the commercial vehicle sector, accounting for about 30 per cent of unit sales, according to a report by Planning Research and Systems, London-based consultants that specialise in the diesel industry. Agricultural equipment takes about the same number of units, but of smaller engines.

Other important product categories include industrial

equipment, which takes 9.2 per cent of units, construction equipment, which takes 5.2 per cent, electricity generating sets (4.2 per cent) and marine (1.9 per cent).
To some extent, the unit

figures distort the true market breakdown, Marine engines, for example, tend to be larger than average. But the beart of the industry, where more than three quarters of the volume and value is achieved, is on the

markets have been depressed in recent years. World tractor ontpnt. for example, is down 30 per cent from the peak level of 840,000 units in 1976. Truck



W. Murray Scott, manager of light diesel development at Ricardo Consulting Engineers, at one of

in the main traditional markets (about 40,000). for diesels has been a high level of unused production capacity. Some industry estimates put the current average operating rate of diesel makers at about 70

Oddly, the over-capacity problem is getting worse. There are some 300 producers of diesel engines around the world, and 250 of them make engines other than for their own use.

hard hit. Unit ontput of marine diesels in 1983 was down 20 per setting closures are a J.I. Case cent from 1979, and of locomotives down a quarter.

One consequence of the slump Vehicles' plant in Scotland Vehicles' plant in Scotland Also Liebherr, the West Ger-man construction equipment

maker, bas begun to produce its of doing the same thing. And over the past few years, Japanese manufacturers, both

of engines and equipment, have become more active in world span a huge power range, from \$40,000 units in 1976. Truck that for their own use, the production likewise is to giant ship engines developing over 5,000 hp and they are used to power dozens of machines, including pumps, compressors, electricity generations, sets and railway forms.

Sales into markets have also been than for their own use, the produced that from established suppliers in the total the process. In Western Cars acity is closing.

For example, Commins Entaken significant market shares pared in many countries in the fork 1979.

Sales into markets, have also been capacity of 230,000 engines a Japan's total share of world in the lift truck sector.

Diesels were widely expected per cent in 1980

Japan's total share of world in the late 1970s to make major in 1983.

John Devaney, managing director of Perkins Engines, on part of the production line at the Peterborough plant

pared with petrol engines. Several car manufacturers then

planned to produce diesel engines in large numbers. However, diesels are not as

powerful as comparably-sized petrol engines and the figures

diesel engine production bas grown from just over 20 per cent in 1979 to 25 per cent, mainly at the expense of Wes-pared with petrol engines. tern European producers, whose share has fallen from 41 per

cent to 32 per cent.
Not surprisingly, no one expects the over-capacity problem to be solved quickly which means that prices and margins own engines rather than buy to be solved quickly, which them, and J. C. Bamford Exmeans that prices and margins cavators of Bretain is thinking are likely to remain depressed for some time,

Against this hackground, the potential of the car market has been the one bright spot for the desel industry. It has at least been growing as a proportion of the total, even if only slowly. Cars now account for 17 per cent of diesel unit sales compared with only 13 per cent in

The biggest disappointment has been in the U.S., where diesel penetration in cars bas actually declined from 5.4 per cent to 1.4 per cent. This is almost entirely because of the bad reputation given to the diesel by a problem-ridden V8 model introduced by General Motors in 1979. The result is that diesels still

bave a very small 3 per cent share of the world's buge car and small truck markets, How-GM's diesel fiasco in the U.S. are fading, there is some bope that demand will recover there. The diesel's acceptability should also be enhanced by recent technological developments that improve its performance and reduce its undesirable characteristics, such

Probably the most important development is the introduction of direct fuel injection systems (DI) for diesels for cars. Because of the high performance demanded of car engines, diesels for this application must run at high speed.

That makes it difficult to achieve efficient direct injection of fuel into the cylinder following the compression stage, and so these engines have, up to now, used indirect systems which involve lgniting the fuel first in a small chamber adjacent to the dustry, mainly because of their lower fuel consumption comcylinder.

However, indirect injection brings penalties in fuel consumption and emission levels. so the diesel industry has been working on developing direct injection pumps that can be used in high-speed engines. It is boped to achieve fuel savings of about 15 per cent. suggest that, unless the financial incentive is substantial, car

Last year, Ford introduced buyers will still go for the better performance. Diesel penetration in Japanese car markets, for example, moved from 2.5 per cent in 1980 to 4.3 per cent in the first high-speed diesel with DI on its Transit Van in Enrope, and it bas performed well. Late this year, Austin Rover of Britain plans to introduce the first Di diesel engine in a car. 1983. In France, it rose from 9 per cent to 9.8 per cent.
The most growth has been in Italy where diesel fuel costs less than half the price of petrol. Penetration there rose from 5.4 per cent in 1980 to 12 per cent

CONTENTS

Industrial equipment West Germany: Eur

high-speed diesels for cars, a number of other improvements are being made nr considered. Still in the ignition area, for example, a number of manu-facturers have been developing electronic ignition systems. These will enable the user to select the level of torque needed for a particular job and so conserve fuel in low-torque

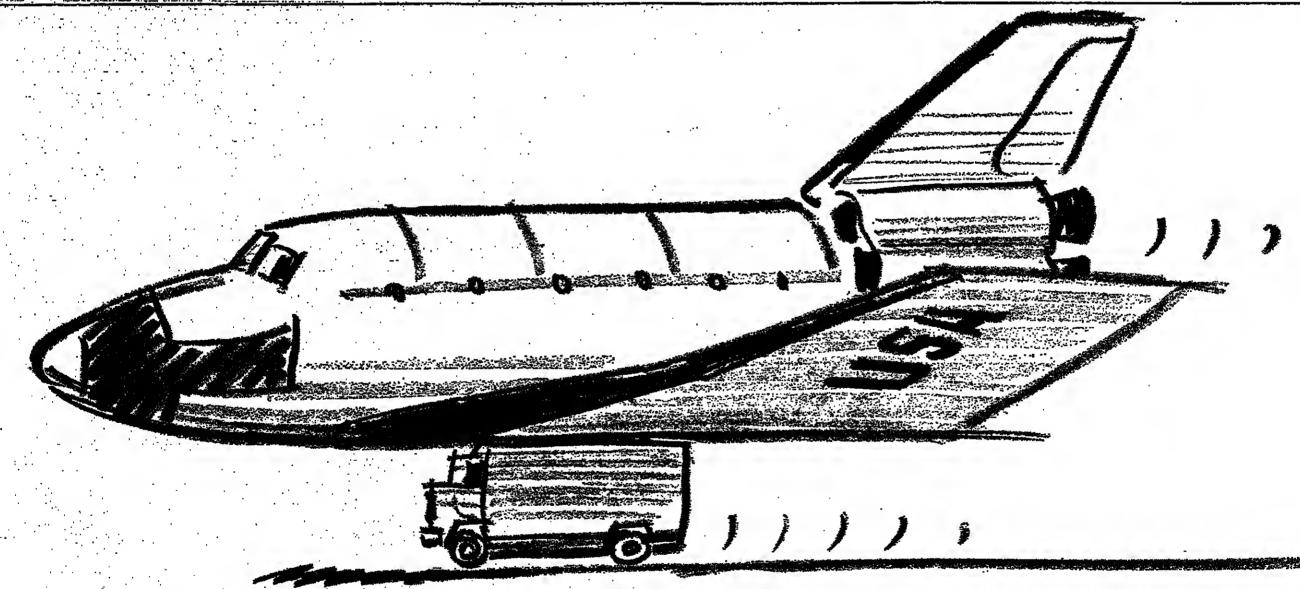
applications. The use of new materials such as ceramics, is an area of great interest because a diesel engine becomes more efficient if it is allowed to run at a bigher temperature. Industry experts now doubt, however, that commercial diesels will ever become completely adiabatic, that is, able to operate without any cooling. Other lines of research are aimed at reducing emissions and noise.

Those engine makers most active in research and development programmes hope that their efforts will result in advances that give them a decisive competitive advantage in the market.

Engine makers have found though that in the rough trading conditions of the past few years, customers have been less inter-ested in engine advances than in low prices.

Technology may also yield ways of solving the problem of potential for diesel engines is excessive competition in other still enormous and they still sectors of the diesel industry.

Apart from the development cent of total world engine of direct injection systems for production ...



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# Market boost expected in U.S. haulage industry

### Commercial vehicles

KENNETH GOODING

DRAMATIC CHANGES to the character of the baulage industry in the U.S. are certain to boost the use of diesel engines by commercial vehicle producers already the major customers for diesel units

until recently the U.S. haukage industry has been very closely regulated by the Interstate Commerce Commission which had as its objective the maintenance of a bealthy, stable industry protected from radical change. change, with an adequate return on capital.

The ICC regulated entry to the industry, the markets served, commodities carried, routes used and other factors to a truly mind-boggling level of

This has now been blown away by Federal decree because the U.S. Government claimed that regulation produced a remarkably inefficient haulage industry in America. It en-couraged a proliferation of the type of equipment used and too many trucks were running empty. For example, general hauliers, who could carry loads for anyone, have been running trucks fully loaded only 10 per cent of the time and at least 30 per cent of the time the

so per cent of the time one trailers were empty.

Private carriers, who were permitted to shift only their own goods, ran fully loaded only about half the time because it was unusual for the truck to

the impact of de-regulation say that the longhaul business will almost disappear. Any journey over about 700 miles will be done by "plggyback," where the truck trailer is carried by rail for part of the journey.
This should limit the number

of heavy-duty tractive units required in the U.S. in future and in theory there will be no need for engines of over 350 horsepower in the States for general haulage.

So the U.S. industry is expecting a switch from the Class 8 trucks (over 33,000 lbs gross weight) towards the Class 7 (26,000 lbs to 33,000 lbs gross).

And the number of delivery trucks should increase greatly because they will be needed to run to and from railheads as well as truck terminals, In addition, if manufacturers

of all types of products become production and increase the number of distribution points, this will provide yet a further boost for the short haud-local deliver vehicles, known as Class 5 (16,000 lbs to 19,500 lbs to 26,000 lbs mags) 26,000 lbs gross).
These two classes of truck

have already experienced a considerable switch to diesel

continue apace at a time when demand for Class 5 and 6 vehicles is also expected to grow much faster than the commercial vehicle market as a whole.

The peak year for diesel truck sales—in unit terms—in the U.S. was 1979 when 258,530 were registered representing 8.5 per cent of the 3.036m total commercial vehicles sold. Last year the diesels accounted for 247.280 or 10.24 per cent of 2.413m total sales.

Compared with that the diesel element in Class 6 sales in 1979 was 17,270 out of 163,305 or 10.6 per cent while last year diesels numbered 11,315 out of 47,850 or 23.6 per cent of the secur

Nearly all the heavyweight, Nearly all the heavyweight. Class 8 trucks sold in the States are diesel—last year 83,655 out of 85,655—but in Class 7 the diesel percentage obstinately refuses to rise. In 1979 diesels accounted for 54.4 per cent of the 46,265 total sales and last year 55 per cent of the 50,026 year 55 per cent of the 59,026 trucks sold.

Diesel penetration is also improving dramatically in the lower weight. Class 2 sector (6,000 lbs to 10,000 lbs gross) which in 1979 had virtually no demary! for the oll-burners: only 950 trucks or 0.06 per cent of the 1.594m sold. Last year dlesels had moved up to 93,455 or 11 per cent of the 849,500 sold.

Diesels have failed to make much headway at the lower end of the U.S. commercial vehicle market because the price of petrol is still relatively low end the manufacturers also have available inexpensive, hig petrol engines produced in large numbers for use in cars which can be used as well in com-

mercials.
Thus, purchases of Class 1 commercials (up to 6,000 lbs

72.500 in 1980 (a respectable 12.2 per cent of total sales in the class) and last year fell the class) and last year fell hack to 26,355 or 1.9 per cent.
U.S. producers have already anticipated the rise in demand for diesel engines for Class 6 trucks—and given the trend e helping hand—by introducing new "economy" diesels. Ford. General Motors, via its Detroit Diesel Allison subsidiary, and International Harvester have all been taking steps to improve their positions.

their positions.

And the independent diesel makers. Cummins and Cater-plilar, have been moving into the market for smaller diesels

### for medium trucks. Independent

The U.S. is also providing the main battleground between the independent engine producers and the truckmakers who are deeply involved in developing and manufacturing their own diesel units

Daimler-Benz of West Germany and the two Swedish companies. Scanla and Volvo, companies. Scania and volve, are particular proponents of the concept that in a premium truck the engine, gearbox and axles have to be perfectly matched and that this can only be achieved if they are all developed and produced by the

Many of Europe's other truck makers, including Daf, Iveco (the Fiat subsidiary) MAN and Renault's truck and bus company, also develop and manufac-ture their own diesel engines. In the U.S. the heavy truck market is very different and the customer usually specifies the favourite diesel engine around which the assembler packages " the vehicles, Daimler-Benz, which now

gross) with diesel engines have owns Freightliner in the States, yo-yoed in line with petrol and Volvo, which bought White prices. They reached a peak of Trucks, are attempting to per-Trucks, are attempting to per-suade the U.S. haulters that the "matched driveline" is best while continuing to give the market what it currently demands—trucks with proprietory diesels, from Cummins, Caterpillar, DDA and so on.

There are indications that, just as happened in Europe, the U.S. market will gradually become split between the two concepts which in any case seem to be able to live happily side by side.

The trend will be helped by nther European groups— Remailt is already represented in the U.S. by a 46 per cent sharebolding in Mack (one of the few American truck companies which produces diesel engines of its own) and both Scania and MAN bave signalled their Intention to move into the U.S. market.

And the Japenese, who

And the Japanese, who between them produce about Im commercial vehicles a year, one quarter of them diesel-powered, also have their eyes on the American market, with the idea of filling niches with delivery and medium-weight vehicles all employing diesels. Mitsabishi, Nissan Diesel Hipo and Japan Nissan Diesel, Hino and Isuau bave all made their plans. Attention is focussed on the

U.S. because demand for com-mercial vehicles elsewhere in the world seems likely to remain depressed for some years. Countries in the Middle East and Africa have a hig need for trucks but simply cannot find the foreign currency to pay for them for the time being. Over the next few years, therefore, the U.S. provides the

best prospects if the com-mercial vehicle industry is to increase total sales worldwide and also to boost its use of



Assembly of Mack Midline rtrucks at Renault's Blainville plant in northern France. These models, with their six-cylinder direct-injection Renault engines, compete directly with both petrol and diesel vehicles in the U.S. Class 6 and 7 market

# Great strides in fuel efficiency

### Marine uses ANDREW FISHER

LIKE SHIPBUILDING, the

buoyancy of the marine engine industry depends on bow strong or weak shipping markets are, and bow willing governments are to subsidise yards and buy in orders.

Just now, the shipping sector remains slack, shipbuilding companies are mostly groping their way in a state of permanent crisis, and governments appear less and less keen to pour their money down what looks like a hottomless plt. So the world's marine engine builders—chiefly Sulzer of Switzerland, M.A.N.-B and W. the West German/Danish grouping, SEMT Pielstick of France, Krupp MaK of West Germany, and Mitsubishi of are currently fighting it out in a bighly-competitive

All have made great strides during the 1980s in making engines even more fuelengines even more ruer-efficient. Back in the 1890s, Rudolf Diesel of Germany reckoned that thermal effi-ciency of 55 per cent was theoretically possible and up to 47 per cent practicable.

In those ploneering days he thought 30-37 per cent more realistic. But engine builders have now broken through the 50 per cent thermal efficiency barrier to ensure that more of the heat goes into running the engine and less of it is wasted. With Far Eastern yards building about three-quarters of the world's tonnage, the engine companies look mostly to Japan and South Korea who have developed a stranglehold over the hard-pressed ship-building industry. Most of the engines are built by licensees.

Nearly two years ago, Sanko

RTA Superlongstroke enginethe one used in many of the Sanko vessels—three years ago. It claimed that about 10 per cent could be knocked off vessels' fuel bills. B and W has since come out with its own new low speed range, designed also to provide more power at less cost for big cargo ships.

Shipowners are not looking for speed these days. With too many ships around, they are not keen to race from port to port and burn up costly fuel. Recent shipping company bankruptcies and rescues show that the bard times in the sector are by no means over yet.

Along with the engine im-provements bave come new developments in propeller and

Lines, and several other com-panies beefing up their fleets for major scheduled (liner) routes, including round-the-

The huge new container ships of U.S. Lines, being built in Korea, have Sulzer engines, as do many of Evergreen's and those of Yang Ming, another expansion-minded Taiwanese line. In this sector, however, shipping experts fear the effects of over-tonnaging, which has previously desired. bas previously damaged other types of vessels like tankers types of vessels and bulk carriers.

Although big tankers are now Steamship, a Japanese line which was financially in very dire straits, nonetheless ordered more than 120 hulk lay-up in recent years have carriers in Jspan's Shippards. Of these, most were supplied with Sulzer engines followed at the power new oil carriers has when poor And the more chief. Of these, most were supplied to power new oil carriers has with Sulzer engines, followed at been poor. And the more ships

Sulzer introduced its new engine builders has been TA Superlongstroke engine— severe. State-owned British

hull shapes, as well as special paints to minimise friction. All of these cost money, of course. The new engines may save money, but they cost more. The RTA was set at a price some 12 per cent higher than comparable engines from the mericus range.

### Container ships

A good deal of the shipbuild-ing activity at present is in the container sector, with Ever-green of Taiwan, United States world services.

Shipbuilders has been forced to cut back its engine manufacturing sharply, as new merchant ship orders have become ever scarcer. After beavy losses, it has reduced jobs and capacity. BS, which has amalgamated

BS, which has amalgamated Clark Hawthorn of Tyneside and John G. Kincald of Greenock on the Clyde, into a single concern (Clark Kincaid) wants to keep some engine-building capacity so it can offer shipowners a total package when trying to win new orders. Otherwise, it would have to order the engines through Sulzer, B and W, or other licensors and would have less consors and would have less con-trol over their price, which can run from £1.25m to well over £3m. It would like to build up to 10 engines a year, but has no new orders at present. In 1980, it had as many as 29

orders through the two companies.

Another shiphuilder keen to win more engine business is Harland and Wolff of Belfast, also state-owned. Though it has trimmed its shipbuilding capacity and also been successful recently in winning new orders, it still needs to find more work. The ward builds R and W

it still needs to find more work. The yard builds B and W engines under licence. In 1983, the last year for which full figures are available, low-speed diesel engines accounted for about 70 per cent of the 9.7m hrake horse-power (hbp) installed on ships by world manufacturers. Of the 588 ships with this category of engine, 88 were built by the licensor and 508 by licensees, according to Momr Ship magazine. major companies'

some distance by B and W (the that are laid-up, the less market shares have see-sawed Danish end of M.A.N.-B and demand for spares.

W) and Mitsubishi.

In Britain, the effect on the Sulzer bad some 36 per cent of Sul the low-speed market, with M.A.N.B and W at 49 per cent the B and W component being 41.5 per cent. Third was Mitsubishi at 14 per cent.

The same three groops led the rankings for all types of diesel, including medium and high-speed engines, followed by Krupp Mak of West Ger-many, France's Pielstick, and Wartsila of Finland. It was a Pielstick design, which Wartslis installed on the latest \$150m cruise ship, Royal Princess, built by the Finnish company's shippard for P & O Cruises of

### Rescue

B and W's link with M.A.N began after the Danish paren company ran into financial diffi culties a few years ago and had to be hail out. M.A.N. came to the rescue of the diesel side, while the shippard was kept going by the Copenhagen government

But the major European makers look like being threatened by competition from their major market, the Far East. Mitsuhishi bas licensed Hyundai of Korea to build its own low-speed engines and is also reported to be looking beyond Asia to Europe, pos-sihly aggling a licensee in Germany.

The Japanese market is certainly feeling the effects of its dominance of a declining world shipbuilding industry. Under government direction, capacity of its shipyards has already heen reduced. Now, the government wants engine makers to limit their output as

UK and Japanese generator production compared

	1980	1981	1982	1983	1984	1985	1986	Growth 1981-86	
Japan generator sets*	100,200	106,060	108,000	113,400	119,000	125,000	131,000	4 per cent	
UK generator sets	51,540	52,025	53,600	- 55,000	56,500	58,100	60,000	3 per cent	
† Includes petrol-driven sets.									

# needs fully supplied

Standby

Electricity generators LYNTON McLAIN

ELECTRICITY sets, especially for stand-by power supply, continue to absorb a substantial number of diesel engines as the prime-driving force.

This reflects the well-established virtues of the diesel engine as a reliable pswer and one which is able to run, if required, on a an attractive feature in some of the export markets with a growing requirement for emergency power supplies.

The generator set industry continues to have a major presence in export markets, with a total of £793.6m exported by the six leading generator set manufacturing countries in 1983, according to the Association of British Generating Set Manufac turers.

This total includes £282.2m

exported by the Japanese generator set industry, the leading industry by the size of its total exports. However, not all these generator sets are powered by diesel engines, especially at the lower end of the power range at around a few killowatts ontput, for which Japanese companies often use petrol engines as the prime mover. Ninety per cent of Japan's output of generator sets is under 50 horse power, one of the most competitive cate-

The UE generator scindustry, with about 120 manufacturers, ooce again dominated the export performance league in 1983 in terms of dieseloply powered mults. The UK industry is led by 12 large generator set manufacturers and the output from most of these companies. comprises generator sets

The UK industry experted renerator sets worth £156.3m in 1983, the latest available figures. This gave the UK industry 19.7 per cent of the sets made by the U.S., Japan, the UK, West Germany, France and Italy.

### Exports

Excluding Japan, with its greater use of petrol engine generators, this performance by the UK industry pushed the U.S. into second place in terms of export shares won in 1983.

This performance gave the UK diesel-based industry a growth rate in experts of 5.4 per cent in 1983, compared with a fall of 8.1 per cent in exports of generator sets as a whoel from the leading manufacturing countries.
The UK exports about 80 per cent of its output of generator sets. Exports have been helped by the weakness of sterling in many world markets in recent months. This has been offset partially by trading difficulties in cer-tain markets, especially the Hiddle East and parts of

Africa. The UK home market absorbing only about a fifth of the UK industry's output, has not proved to be of a sufficient size to attract the growing Japanese generator set industry in "threatening" numbers, according to the National Economic Develop-

National Economic Develop-ment Office.
Of much greater concern, however, is the rapidly-rising impact of Japanese generator set makers in world markets. The Japanese industry has increased its exports of diesei and petrol generator sets from £79m in 1879 to £28.22m in 1981. This represents in 1983. This represents more than a doubling of Japan's share of world export markets for generator sets from 15.7 per cent to 35.5 per

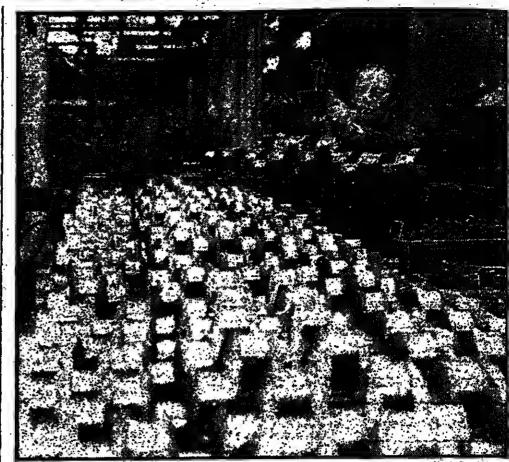
Over the same period, the UK industry's share of world export markets slipped marginally from 2.3 per cent in 1978 to 19.7 per cent in 1983. The growing inroads made by the Japanese generator set industry in only four years set industry in only four years caused serious concern at the NEDO Industrial Electrical Equipment sector working party where the Japanese competiturs were seen as having pushed the UK industry down the world export league and "pose a major threat to the UK's overseas markets."

engines are likely to produce more economies too).

The gains already made in terms of new car market penetration since 1975 in Western Europe have been substantial. From 3.1 per cent, they had climbed to 11.3 per cent by the and of 1982, representing unit sales of 985,500.

In 1983, however, they fell back, to 9.3 per cent. It appeared for a time that this was proof that the diesel, because of its power disadvant.

cause of its power disadvant-ages, would always remain vul-nersble to shifts in consumer priorities-for the market has once again become more per-formance conscious as, for those



crankshafts wait to be fitted into engine blocks on the assembly line

# Rapid growth puts prejudice behind

Cars

JOHN GRIPPITHS

WITH THE possible exception of North America, the world is gradually overcoming its projudice against the diesel engine as a power unit for ears.

as a power unit for ears.

The prejudice has been understandable; diesels are inherently considerbly less powerful, sibe for size compared with their petrol-fuelled equivalent; the fuel they use has an unpleasant smell and is messy to handle; diesels can be difficult to start and noisy. be difficult to start and noisy, particularly at tickover; they need to be scrumiously main-tained, and their very high compression ratios require mera frequent oil changes.

They do, however, have cer tain advantages which are becoming

significance: consumption can be expected vis-a-vis petrol. But this is off-

They emit considerably fewer pollutants than petrol engines, an increasingly important factor given the degree of concern now being aired throughout Europe on the effects of car engine pollutants on forests — dying at an alarming rate — and concern about throughout Europe on the effects of car engine pollutants on forests — dying at an plarming rate — and concern about the effects on bumans of the release into the atmosphere of the lead which is used as an effect. Rover's plan to launch a car market towards its worst recession for many years, the diesel appeared to be the ideal answer to fuel economy, particularly in a country where a 55 mph speed limit is rigidly enforced. the lead which is used as an engine knock-suppressant in yetrol.

They tend to be longer

lasting than petrol engines if properly maintained and — as a result — their resale values (possibly the biggest single cost of owning and operating a car) can be markedly higher.

Glow plugs

In the last few years, manu-facturers bave been able to build on these plus points for the desei in various ways: en-gineering and technology ad-vances have reduced the period needed for the glow plugs to heat up, thus allowing the engine to be started, to the point where the delay is all but unnoticeable:

Much of the noise has been designed out, while Mercedes last year went one step further

has year went one step turner by encapsulating the engine in a sound-reducing box;

The purchase premium required for a diesel has come down as manufacturers have been able to spread the cost over a growing number of units.

And within a year or so the And, within a year or ao, the first of a new generation of directly injected diesels should start to see a further increase in economy, of at least 15 per cent (although further improvements in the economy of petrol engines are likely to produce

But 1983 appears to have been only a hierup. Strong growth resumed last year in Europe's main markets, as the table sbows. engines."

In any case, the fallback had been confined mainly to West Germany and Italy, both per-formance-conscious markets. And, in both countries, the fall-back was from quite high levels.

### Big take-off

Even the UK, next to Switzerland the slowest starter in the diesel market, is now seeing a hig take-off, even though from a very small base. In 1977, just 2,200 diesel cars were sold; in 1983 the figure reached. 24,000 an towards the end of last year sales were running a further 61 per cent shead.

to buy than equivalent, frequently much better performing, petrol-driven models. ich are be- where diesel fuel is less than increasing balf the price of petrol); that about half of all new cars are They have a fuel consumption which, typically, is 25 per cent less overall than an equivalent petrol engine. (The urban driving advantage is much more pronounced—at least 50 per cent better fuel centive to provide a fuel tax

Volkse

advantage to the diesel. Such a move in the past set by a fill to about 15 per might have promoted energy cent in high-speed driving on motorwsys). might have promoted energy efficiency—but it would also have served to promote a lot

however, with the introduction by Ford last year of a Degenham-built diesel and Austin Rover's plan to launch a car diesel developed jointly with

clude in recent report:
"In star k contrast to many industry forecasters, we have held long-term and consistent views that prophesied the grow-ing use of the diesel engine as a prime propulsion unit for the car of the late 1980s, and more so for the new, environmentally

us in the 1990s.
"Demand for diesel cars is clearly back on the path towards growth and this is bound
to speed up with the introduction of lead-free petrol (planned
to be freely available in the
EEC from 1989 on) and the

legislative need to fit costly and, energy-wise, wasteful catalytic exhaust technology to petrol

Rapid growth is also being experienced in Japan, whose output has grown swiftly to the point where it aiready produces about half the world's ontput of light diesels—not just for cars, but for all kinds of other industrial applications, Japan's car diesel technology is now among the best in the world, its products including Dailastsu's litre turbocharged unit which has all but eradicated the performance gap with a small petrol unit.

Planning Research and Sys-tems, consultants who monitor closely diesel engine develop-ment forecast that diesel raises in Japen will reach 550,000 units a year by 1000 with a 35 per cent market penetration in the small volume car sec-

Similar growth is being exports. Nissan's diesel sales in Belgium, for example, jumped from 20 per cent to 40 per cent of the company's total between the last quarter of 1982 and the same period of last

### Exception

Volkswagen, however, re-mains Europe's leading diesel car producer, having sold more than im market-pioneering diesel Golf's since their launch in 1978.

of diesel car imports, too.

That situation is changing, however, with the introduction answer can be traced to General by Ford last year of a Dagen. Motors. As the 1973 fuel crisis tipped the North American cor

Many industry analysts forecast that diesels would account for 25 per cent of the U.S. new car market by last year. But GM had a host of problems with the VB diesel unit it produced up to 1981, resulting in court cleaner cars that will be with action on hebalf of nearly half a million owners.

The experience appears to

### The main European diesel models

	Model		1982 Outpu
Volkswagen	Golf		13882
Fiat	Ritmo		6274
Repault	R9		5381
Fiat	Une		4977
Renault	R18	*	4928
Peugeot	305		4767
Daimler-Benz	240		447
Daimler-Benz	300		4086
Opel .	Radett		2296
Opel	Ascona		2239
Ford	Sterra		2082
Source: Plenning Research and Systems.			

### PRS DID YOU KNOW?

PRS maintains a computerised data base covering worldwide diesel engine production by model. Also vehicle production and registration by model. Over 320 engine builders and nearly 8,000 engine models. Five times as much engine data as our nearest competitor.

PRS COMMITTAINCY GROUP Firming Research & Systems FLC 24 Old Bond Street London WIX 3DA Telephone 01-409 1538 Telep 23442 FRS Consulting Group Inc PO. Box 1001 Dating, Ct. 0652 USA. Telephone 203-636 1505 World Londons in Engine Research and Consultancy

# FORD ANNOUNCE THE FIRST DIRECT INJECTION DIESEL INAVAN.

Don't be deceived by that familiar Transit bonnet line: beneath it lurks an economic mirade.

The first-ever direct injection diesel developed specially for the medium van. Test drive it, and you'll be so impressed by the way the 2.5 litre Di moves you could well miss what doesn't. The fuel gauge.

### THE COMPETITION CAN'T COMPETE

Even in mixed driving, semi-laden, Ford calculate a onetonne Transit Di is capable of 36 mpg.\*

Over 25,000 miles – less than a year's driving for many "trunking" vans – such miserly thirst makes the Di about £150 cheaper to run than the next best fuel efficient van on the market.

It really is like having every eighth gallon free.

It's also like having your cake and eating it. So simple is the new engine that it cuts overheads as well as consumption: so efficient is it that all the familiar drawbacks of diesel van operation are removed at a stroke.

### **MORE POWER FROM LESS FUEL**

Gone is the glow-plug, the waiting and wondering about ignition. Gone, too, is the ponderous two-stage combustion process of indirect injection, which blows so many unburnt hydrocarbons out through the exhaust and gives diesel its "smelly" reputation.

The development by Ford of "swirl" technology (see diagram) enables faster, more thorough mixing of air with fuel, and their combustion a split-second later in the one place where

energy can be translated directly into output.

The piston crown.

You feel the benefits where they count most: under your right foot and in your wallet.

For while the Di sips less than any comparable diesel, it revs more freely and develops maximum torque higher in the power band. At the same time, careful choice of gear ratios means that it drives and accelerates like a petrol engine.

WHAT'S A GARAGE?
It's no quicker into the garage,

however.

Simple oil and filter changes at 6,000 miles, and major service intervals only at 12,000, make the Di as cheap to run as it is to fuel.

More than £130 million has been invested by Ford in giving the Di its unique blend of economy with performance, so it's hardly surprising the others have some catching up to do.

With fuel the price it is, though, can you afford to wait?

# FORD TRANSIT



### FORD CARES ABOUT QUALITY.

\*Fuel economy figures are an average of the ELA urban cycle and a constant 56 mph, and both performance and fuel economy are measured and calculated by Ford Motor Company Limited in line with EEC procedure 80/1268/EEC, or manufacturers published figures.



It's like having every eighth gallon free.

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A Sympathia (Control of the Control 
# Makers seek goal of direct injection car engine

Technical developments LYNTON McLAIN

CURRENT technical develop-ments in diesel engino design and development are concerned with three main issues: bow to reduce fuel consumption, how to improve power output and, at the same time, how to meet increasingly stringent controls

These problems are at their most acute in the current search for high-speed, light diesel engines with direct fuel injection for cars in place of indirect injection.

Ford already has a 2.5 litre direct injection diesel engine in production for use on its Transit light trucks and vans. This direct injection has a "toroidal bowl" combustion chamber, four fuel sprays and e high pressure rotating fuel pump from CAV.

The Ford ongine is not, however, siutable for cars. At 250 kilograms it is too heevy, although Ford could claim a "world first" in thet it is the first "high speed"—4,000 rpm -direct injection diesel to go into commercial production.

Perkins is developing a direct injection diesel ongine designed for cars in e joint £22m programme with Austin Rover, Tho ino is expected to be ready for full-scale production by the end of 1985 and Austin Rover may have cars available with the engine next year (1986). The engine is likely to be one of the world's first mass-produced direct injection high speed diesels for cars.

The reason for the search for direct injection engines for cars is that they offer the prespect of potential fuel savings that higher rate of burn of the fuel could be anything between end a more advanced start of 10 per cent and 25 per combustion compared with incent compared with indirect direct injection systems. injection engines. The typical realistic figure put by manu-facturers and researchers is around a 15 per cent cut in

The potential prizes are con-siderable for the enginemaker which comes up first with a workable direct injection, highspeed diesel engine for cars.

diesel fuol is injected directly into the combustion chamber,

into the combustion chamber, rather than into e fuel/air premixing champer.

The piston itself in a direct injection diesel engine will probably have been machined to a special "bowl" shape at the top to allow for the most efficient mixing of the diesel fuel with swirling air for optimum combustion. Until now, bow to mix fuel and air inside the combustion chamber liself the combustion chamber itself efficiently, has been the main stumbling block to commorcial production of the "DI" diesel. Ricardo Consulting Engineers has developed the "advanced Comet" indirect injection diesel engine by taking advantage of miniaturised fuel injectors and

miniaturised fuel injectors and igniter plugs.

Direct injection techniques were established for lorries and trucks by the late 1930s. These engines are relatively low speed, have a low speed range and a comparatively low compression ratio.

compression ratio.

Small, light, high-speed, high compression diesel engines for cars are a vory different proposition. Many of the difficulties in trying to adapt direct injection techniques to these

high-speed engines stem from these differences.

The prize of a 15 per cent reduction in fuel consumption is tempered by problems with engine performance, smoke, noise and gaseous emissions. The improved fuel performance stems from reduced in-ternal losses in efficiency

ternal losses in efficiency through different methods of mixing the fuel and tho air.

Ricardo Consulting Engineers, specialists in engine research and development of Shoreham-by-Sea, Sussox, showed that the combination of reduced fuel pumping reconference wherearth with direct intertion systems and reduced heat better operating efficiency, could be ettributed to the better combustion compared with in-direct injection systems. This higher rate of fuel burn in the direct injection engines

and the more advanced combustion contributes to higher pressures in the engine cylinders and emissions of nitrogen oxides (NOx) as well as extra noise especially where these used conventional multi-spray infecnxeq-orince injector for the fuel, results in "over-penetration of the fuel at bigh speed," according to Mr Murray Scott, the head of light duty diesel development at Ricardo Consulting Facturers. This ways of improving the thermal officiency of diesel engines (currently only about a third of the beat energy is convorted to mochanical energy.

The use of "unit injectors," combined pumps and injector systems, can be used to generate very high pressures when fitted with stiff drive systems, to partially alleviate this uneven performance. formance.

The problems of unburnt hydrocargon and NOx emissions bave led to research on ways of improving the design of the combustion chamber to cut down these exhaust by products. Perkins worked on the "squish lip" chamber and MAN of West Germany produced the con-trolled direct-injection design. The approach at MAN has concentrated on the combustion

process to give the correct dis-tribution of fuel between the air and the cylinder wail at all speeds. A special injector is necessary to control the inlet of fuel

spray and its penetration.

The controlled direct injection (CDI) system, using a variable-orifice pozzle to avoid the need for very high pressures, is being developed by MAN in collaboration with Ricardo Consulting Engineers. The system is being applied, experimentally, by Ricardo to

Europe and Japan. In the experimental CDI system for cars, the fuel injector sprays fuel along the wall of the combustion chamber; fuel is then evaporated off the wall. The orifice ed as engine speed is

the passenger car diesel engines of clients in the UK, Western

Further developments in the design of indirect injection combustion chambers aimed at getting improved fuel economy are also under way et Ricardo and elsewhere. The aim is to give diesel engine designers and users the option of using improved efficiency indirect injection systems where direct systems are not

This conventional direct-practical, or whore legislation injection system, based on a forces a compromise between fixed-orifice injector for the NOz emissions, fuel con-

diesel development at Ricardo
Consulting Engineers. This results in poor mixing of the air
and the fuel.

Fuel spray
The use of "unit injectors,"
combined pumps and injector

remained pumps and injector control of the fuelinjection system.

These developments have become more pressing for diesel engineers as the fuel economy of the conventional petrol

With direct injection systems for small to medium cars, heat losses are less, there is lower friction than with indirect injection, but these advances are achieved with considerably greater combustion noise, arising from the large amount of fuel in the chamber before combustion.

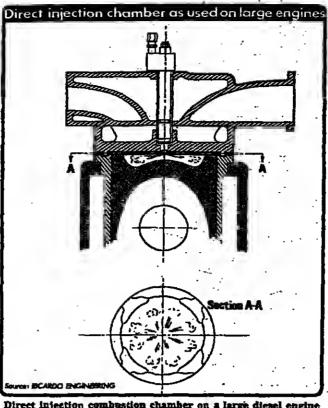
"Without any acoustic treatment, the engine is like a machine gun and this can be a problem," Mr Murray Scott problem." Mr Murray Scott says. Also, the end of the speed range has to be sacrificed.

### Solution

The "ideal" solution is to use a variable injection rate for the fuel. High pressure is also necessary and "unit injectors" can be used to give this high pressure, but operators face the penalty of greater NOx omissions (up to 50 per cent more than with indirect injector

carbon emissions, unless the engine is de-rated in power. In genoral, direct injection inforcing economy compared with in-direct injection engines, but they have greater problems with emissions.

The unburnt hydrocarbons arise because the injector on direct injection systems can produce residual fuel in the combustion chamber. NOx emissions are the main exhaust problem, however, end are believed to be caused by the high temperatures of the combustion and the timing of the injection of the fuel in the



Direct injection combustion chamber on a large diesel engine as used in industrial and marine applications. The fuel spray pattern can be shown using advanced photographic

operating cycle.

With indirect injection, on
the other band, there is combustion in a shorter time and
NOx emissions are reduced. Research efforts to aid com-

bustion and reduce unwanted emissions include work on catalytically-controlled combus-tion and the use of platinum catalytic matrices in the combustion chamber, to allow lower compression ratios. Ricardo has developed a laser doppler anemometer (LDA) to follow air motion in the cylinder. High speed flame studies using photography have also been developed to aid combustion research.

Other experimental work grooves around the piston, with ceramic fibres re-inforcing the aluminium of the piston in the area around the top of the groove.

The idee of using ceramic fibres has been proven experi-mentally to improve the retention of heat in the combustion chamber and reduce heat transfer across the engine. This best flow can also be cut at the exhaust port, by using ceramic port liners, cast in porous material in the head.

This approach allows a smaller radiator to be used and this could be 10 per cent smaller when a ceramic port bulky and more noisy. The liner is used to cut down the system has been used on trucks

beat reaching the water. ...

techniques as the ceramic has to be polished with industrial diamonds. A ceramic cam follower has been run for 5,000 hours experi-

mentally. Ceramics have also been considered experimentally to try
to cut the mechanical inertia
of turbine rolors in turbochargers for small diesels. By
making the turbine rotor
lighter, a marginally higher response time can be achieved, so that after a driver selects the turbocharger, the delay before it comes into operation is reduced. Bonding the ceramic to the metal is a problem,

The ceramic rotor does reduce

The ceramic rotor does reduce the response time, but it does not get to the point of zero response time, the idea, as the inertia of the air column also has a slowdown effect.

Brown Boveri of Switzerland has developed the "Comprex" system to improve the response time of turbochargers. This system uses the exhaust gas to push air into the engine, transferring the pressure of the exserving the pressure of the exferring the pressure of the exhaust gas to the intake air. The response rate of the engine is very high, but the oughe is more expensive than a turbocharger and is more

in Finland, but the cost could Other experimental developments in the application of curamics to the design of diesal engines include the "ceramic cam follower" on a cast iron truck engines to uprate the cam. This is thought to be power output of the diesel while too expensive for mass engines, keeping the engine size down.

Europe's largest producer is making a recovery despite market difficulties

# Investment and earnings up

In West Germany the largest diesel engine producing country in Western Europe, motor vehicle producers are major diesel engine makers and the car market in the and the car market in the biggest single outlet. But out-side this field, production is for a wide range of indus-tries, many of which have been languishing in recession

in recent years. Overall production declined in 1983, but a recovery, even if moderate, has been evident in many areas since then.

Kloeckner-Humboldt-Deutz (KHD), one of the chief suppliers for outside industries, sees a slight increase in outlets for its high-speed diesel

Total production of its highspeed diesel engines last year, including those for in-house use, exceeded the 1983 level, although it was still below tho 1982 output of about 150,000 engines. KHD expects the revival to con-tinue this year.

However, the market for medium and large diesel engines remains difficult, KHD says, although the marine diesel engine market has shown signs of improve-

Despite problems in diesel engines and other fields, KHD in 1983 improved its earnings ourformance — and lifted its dividend - following success ful rationalisation measures, It is also pressing ahead with major investment total-

ling about DM 1bn by the end of the decade, involving a new engine programme was well as modern and more flexible engine production. Problems in the markets for marine diesel engines and

large generator engines have contributed to the recent fincontributed to the recent meancial headaches of MAN of West Germany. The company felt the sever impact of these problems at the same time as it was faced with a sharp setback in markets for heavy trucks and buses, MAN, however, has been beading back towards profita-

bility after carrying out dras-tic restructuring measures in trucks and in large diesel en-gines, involving ents in capa-city and in the workforce. Herr Otto Volsard, MAN's chief executive, has pointed out that the marine diesel engine market has been hit not simply by recession but by building away from Europe.
From last July, MAN has
hived off its marine and other
large diesel engine business fined operation, consisting of twin companies in Denmark and West Gesmany.

MAN has ceased produc-tion of larger marine diesel engines at its works in Augs-burg and has reduced capacity in this field in Copen-hagen on a basis for more hagen on a pasts for more economical operations—backed up by successful licensing operations elsewhere abroad. It is continuing to produce engines for medium-sized vessels and specialist shipping in Augsburg.

The Danish company has already been operating at a profit, but the result was more

fit, but the result was more than effect by losses of its than offset by losses of its West German counterpart. MAN bopes that the two together will return to profitability in about two years—although the overall MAN group is boping to break even in the present financial year With the recession in agricultural equipment, the Neuss plant of international Harvester (IH) has seen its diesel engine production decline in retent years, reaching cline in recent years, reaching 25,000 in the financial year to October 31, 1983. But engine output showed a slight re-

output showed a slight recovery last year, although it
is still only running at about
half of capacity.

The Neuss factory, as well
as turning out diesel engines
for its own argricultural
machinery assembly, also supplies engines for International Harvester plants in
France and the UK.

Rationalisation in the world
agricultural equipment market resulted in the recent
takeover by Tenneco of
major International Harvester
interests in the U.S. and the
UK, with Tenneco also taking

UK, with Tenneco also taking out an option on the IH plants in West Germany and

speculation about the possible future role of Cummins engines in International Har-vester equipment, in view of the existing link-up between Cummins and J. L. Case, the farm equipment subsidiary of

But the Neuss subsidiary, which is profitable, sees exist-ing delivery arrangements carrying on in the near future and is putting great store on its expertise to secure a con-

John Davies

Development has to take account of stringent emission controls

# Competition increasingly fierce

Industrial/ agricultural equipment

IAN RODGER

THE BIGGEST user of diesel engines may be the car indus-try, but the real action these days is in the markets for other vehicles, such as trucks and buses, and various kinds of industrial equipment.

distrial equipment.

The manufacture of diesels for cars is normally done inhouse by the car makers, so there is rarely a scramble among independent suppliers for the business. But in the truck and industrial equipment markets, composition is fierce and getting more intense every year.

There is no mystery about this trend. Engine makers that have excess capacity, and that is just about all of them these

is just about all of them these days, are desperate to keep their volumes up, and so turn to the only open markets available, even if they are depressed and already eversupplied.

Moreover, surprising as it may seem, world engine-making capacity continues to increase, even though it is probably 25 per cent to 30 per cent in excess of market needs stready.

In the past year cione, Cummins Engine of the U.S. has started up a new factory in the U.S. with capacity for 230,000 ongines a year and Liebherr of West Germany has started to produce its own engioes (about 5,000 a year) for the first time rather than buy them force out. rather than buy them from outide suppliers.
The markets of most interest

1981 to 490,000 in 1983, accord-ing to Planning Research and line. Systems. Output for industrial Meanwhile, Cummins is equipment, was down from 933,000 units to 865,000 over the same period and production for agricultural equipment was unchanged at 2.9m units.

There are varying degrees of in-bouse or captive production in these sectors, but it is especially strong in the truck eector where major suppliers, such as Daimier-Benz and Volvo, make almost all their own engines. In the Western Europe

West Germany and Perkins of West Germany and Perkins of Britain. In the construction and industrial equipment sectors, for example, Perkins and Deutz between them supply over 60 per cent of the engines in the 50 to 300 hp range sold in Western Europe. Thoy also have over 40 per cent of the medium-power generator set market. power generator set market. However, they are under attack

from an increasing number of other engine makers.

The new competitors are usually one of two types, the committed engine specialists, such as Cummins and Nissan Diesel of Japan, and what might be called the marginalista.
These are companies that produce engines mainly for their
own machines but seek to
reduce the cost of excess capa-

reduce the cost of excess capacity by selling in other markets as well.

The most important of them are the Japanese producers, such as Issuu, Mazda, Rubeta and, recently, Komatsu. The non-Japanese include Deere, the farm

The markets of most interest to engine makers are trucks and buses, farm equipment, construction equipment, industrial equipment such as fork lift trucks and compressors, generator sets and bosts. In Western Europe and the U.S., these markets absorb something like 2.5m engines a year, two thirds of which are in a farily narrow power range between 50 and 300 borsepower.

However, almost all of them are over-supplied. World production of diesels for construction equipment, for example, acquisition, the farm equipment dropped from 589,000 units in ment division of International

working patiently on two other fronts. It is trying to convince operators of small vans in the U.S. to convert from gasoline to diesel engines and has a few trial programmes going. Also, it wants the general dealers for its large engines to start selling its small ones as well. The problem bere is that many of these doalers now represent Perkins in the medium engine

truck and bus market, probebly less than a tenth of the markot is available to outside suppliers. However, at the other end of the scale, most construction equipment, industrial equipment, generator set and boat manufacturers buy all their engines from ontside suppliers. The traditional main suppliers in these markets are Doutz of West Germany and Perkins of change for an untried product in the U.S.

Iveco, a Fiat subsidiary, has e very strong base in the Fiar group, selling some 220,000 engines a year for use in Iveco trucks and fork lift trucks, some Fiat cars and vans, Fiat tractors and Fiatallis construc-

The largest single outlet is the 1veco truck operation, which takes about 80,000 en-gines a year, and the company is devoting most of its development effort to koeping its truck engines competitive. It is also trying to wean customers of its Magicus trucks from Deutz airconfed engines.

Mr Heinz W. Hehn, executive vice-president of Iveco, says air-colled engines are good for niche prodocts, such as military trucks and some off-highway applications, but heve no signiapplications, but heve no significant advantages in ordinary use. "The proportion of aircooled engines (now 15 per cent) in oor trucks will not increase," Mr Hahn says.

Iveco decided nearly three yearsa go to set up the engine husiness as a separate profit centro within the company and try to develop ontside sales of loose engines. At first glance, it would seem that its opportunities wero considerable, as it had a wide range of engines, ranging from 40hp to 500hp and a proven record of performance.

But Iveco has found it difficult to find new markets, partly because it does not have an extensive network of general well, claiming to have boosted its market share there from under 30 per cent to over 40 per cent since 1981, mainly at the expense of Same, the Italian tractor producer, and

Deere's output, from plants in the U.S. and France, is about 140,000 engines a year, of which only 10,000 are sold ontside the group, mainly for electricity generating sets. The company has become more interested in outsido sales in the past couple of years largely because of the decline in its own needs as farm equipment sales have slumped. Its main engine mar-keting effort so far has been

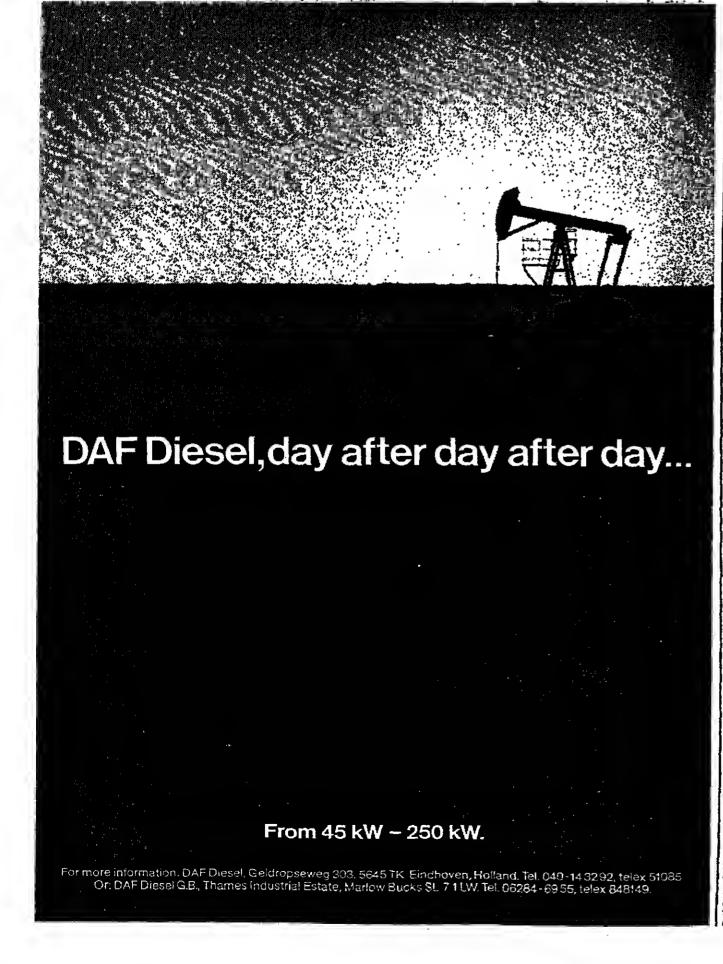
"It's a matter of developing a market opportunity," David Willis, Deere's director of cor-porate planning, says. "Since the farm machinery business is in a slow growth period, it is not going to get us back to the volumes of the 1970s." He desied being daunted by the strong competition in the engine business. "I would be more nervous if our management wanted to go into micro-chips or computers."

marginal producers like Deere can be more flexible in their pricing policies than the committed producers because they cover their fixed costs on their in-house demand. Deut; says it has been profitable throughout the recession, but even though demand has recovered a bit

demand has recovered a bit, margins are getting worse.
"It is because of the prices of the marginals," Peter Garner, managing director of Dentz in Britain, says. "They can't be selling profitably." Perkins agrees, but claims not to be too concerned about them. "They are a unisance factor, not an

These companies count on their long-term commitment to the industry plus their large international distribution net-works to belp them retain most

customers. Also, many products, such as excavators and tractors, are designed with particular engines in mind and it is not easy to switch in a hurry. "The marginals can get some of the generating set business,



S. PHILL TRAINING

Over 70 mpg

ver 90 m

earth has it

the bonnet?

\*Govt. fuel economy figures – mpg (litres/100 km). Fiesta 1.6 diesel: constant 56 mph (90 kmh) 74.3 (3.8), constant 75 mph (120 kmh) 50.4 (5.6), urban cycle 56.5 (5.0). Escort Saloon 1.6 diesel: constant 56 mph (90 kmh) 70.6 (4.0), constant 75 mph (120 kmh) 48.7 (5.8), urban cycle 51.4 (5.5). Orion 1.6 diesel: constant 56 mph (90 kmh) 72.4 (3.9), constant 75 mph (120 kmh) 52.3 (5.4), urban cycle 51.4 (5.5). TFord computed top speed, 1600cc diesel saloons; Fiesta 92 mph, Escort 91 mph, Orion 93 mph.

gotunder

One of the friendliest little engines that you're

It's incredibly economical. Even around town it

But wait. Aren't diesel engines usually a bit too

You see, it's not just a commercial diesel that's

Nor is it a petrol engine that's been converted

We know you're sceptical, most people have

But since you're interested enough to read this far, why not go just a little further; pop down to a . local Ford dealer and arrange to have a go in one. Incidentally, it won't just be the engine that impresses you. Our diesel models are just as comfortable and well equipped as our petrol models.

The new Ford 1.6 Light Diesel. Quick, quiet, clean.

does over 50 mpg." Yet it's surprisingly nippy. It can cruise in the eighties and overtake effortlessly.

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rather difficult to start up in the morning?

Our new diesel is expressly signed for our three front

Any Ford dealer can service

never really thought of buying a diesel.

Ford cares about quality.

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these cars are great little personalities. They make a lovely happy sound. They pack

bags of punch. And they always feel absolutely tireless.

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them. (Standard services 12,000 miles). And have you noticed how many garages now have diesel pumps on

their forecourts?

The diesel versions of

Ford's remarkable new 16 Light Diesel.

be a little smokey? And aren't they sometimes

been adapted for private use:

to run on diesel. That wouldn't be Ford's way of

noisy for the private motorist? Don't they tend to

ever likely to meet.

What is it?

Not this one.

doing things.

oducer is / despite Ities

bruary 4 1985

i last July, MAN is marine and so items engine bus e it a more clear negation. peration, consisting operation ben has ceased but larger marine di sat its works in i ad has reduced in C on a basis for operat eperations els g in Augsburg.
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John Dave

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# Rolls move wins new sales worldwide

of the Massey-Ferguson farm equipment group, is beginning to show some sparkle again.

Its production volume was up 18 per cent last year, and its improved profitability kept Massey from incurring a fifth year of losses. Also, the Peterborough, England-based company bas recently begun to recruit apprentices for the first time in over two years.

Perkins, one of the leading world manufacturers of diesel engines for off-highway vehicles and industrial equipment, lost a lot of its lustre in the late 1970s and early 1980s as its markets alumped and the parent company went through a succes-sion of financial crises.

sion of financial crises.

Output at Perkins' Peterborough factory tumbled from
245,000 engines in 1979 to only
130,000 in 1983, and the group's workforce was cut from more than 13,000 to 5,600. Financially, Perkins was said to be just breaking even through most of

this period.

Late in 1983, things began to improve, the largest single boost coming from the acquisition of almost all the engine business of Britain's J. C. Bamford Excavators. JCB buys ebout 8,000 engines e year.

Early last year, Massey backed Perkins in acquiring the 190m Bolls Boyce diesel engine £20m Rolls-Royce diesel engine business from Vickers. Rolls

military vehicles, complement the Perkins range of 30 hp to

More than 80 per cent of Rolls' engines were sold in the UK, and Perkins, which has 4,000 sales and service outlets. 4,000 sales and service others around the world, figured it could add significantly to the engines' export sales. Company officials say this has already proven the case, with significant new sales won in West Germany of the country 
**SPerkins** 

lated that Perkins' move into bigger engines was a form of retaliation against Cummins' move with its new B and C series into the 50 hp to 250 hp area where Perkins is strong. Perkins says it has no intention of trying to take on Cummins heed-to-head in the U.S. com-pany's stronghold, the North American truck market.

It wants to build on Rolls' strength in the U.K. truck and military market and develop sales for e variety of purposes, such as generating sets and boats, in most cases with its existing customers both in the UK and overseas. However, it is also taking greet delight in displacing Cummins engines from a few large Massey-Ferengines, which range from guson four-wheel-drive tractors. its range of engines and the lack (15 per cent), fork lift trucks 200 hp to 1,200 hp and are used

It has often been suggested of growth in most markets, the (30 per cent) and pleasure mainly in heavy trucks and that because of Massey's finan-directors believe the keys to boats (14 per cent). About 40

cial difficulties, Perkins has not been able to invest enough in recent years on updating its oducts. Again, the comparison with Cummins stands out, the American company having invested \$300m on developing new products and modernising

others in the past nine years. Perkins officials point out thet a lot of Cummins' spending has gone into building new factories o produce its new engines. Our product development spend has been about the same as theirs but it has been spread out over e longer period." Mr John Devaney, managing director, says. He claims that existing Perkins engines in the

50hp to 250hp range are very competitive with the new Cummins B and C series. Perkins did develop a new series, called Q14, ranging from 160 to 240 bp, a couple of years ago, but found that in the recession customers were not willing to pay more for edvanced combustion and fuel injection systems incorporated in it, and so it bas not been put into pro-

The company has also been spending heavily on improving its manufacturing facilities at Peterborough, Flexible antomation has become a major part of the company's strategy for remaining competitive in its many markets. Given the excessive amount of competition in

duction.



Spraying paint on to a completed engine after assembly

success are being able to produce high-quality products as chesply as possible and deliver them quickly.

In 1982, it installed a transfer line for cylinder heeds, e £6m flexible machining system for balancers and e £400,000 heat treatment line for crankshafts. Last year, it unveiled e £2.5m scystem for components and e £1m robotised assembly line for cylinder beads.

Perkins and its many licensees around the world have held on to their leading positions in many equipment markets during the recession. The company claims an 11 per cent share of world markets other than cars for engines in the 30 bp to 300 hp range, with lerge shares in far mequ

per cent of its engines go to

Perkins has tried to enter the car market, one of the few diesel markets showing any growth, through joint ventures bnt without much success so far. A \$222m venture with far. A \$222m venture with Chrysler to dieselise one of the U.S. company's petrol engines was cancelled only e few months after it was set up in 1982. Last year, a venture with Land Rover to dieselise the V8 Rover diesel was cancelled, apparently for lack of demand.

There remains a project with Austin Rover to produce a direct injection diesel version of Austin's "O" series car engine, due to be iaunched late this year in the Maestro. Per-kins says it is on schedule for its part of the project.

Ian Rodger

# Very high level of self-sufficiency

as e manufacturer of earth-moving and construction equipment. Highly successful in its domestic market in Japan, it has developed a formidable reputation in its export markets, taking on the mighty Cater-pillar and continuing to operate profitably through the difficult years of the early 1980s, when most of its competitors were

of \$3,000m and a very wide range of products.

A feature of Komatsu's manufacturing operations is the very high level of self-sufficiency. With its own foundry and forg-ing facilities, its own manufacture of CNC machine tools, automated manufacturing systems and robots, Komatsu not a high level of control over them, an achievement recog-nised in the Japan Quality Control Award in 1981.

Komatsu started production of its own diesel engines for bulldozers in 1947, but it was not until 1976 when Komatsu diesels were offered in generator and compressor sets, that the company first looked to applications outside earthmov-ing equipment. At the same time, engines were first offered to Japanese generator set manufacturers on an OEM basis.

As Caterpillar did before it, Komatsu discovered that it is hard to beat the earthmoving

and construction equipment husiness as a test bed for diesel engine development. In addition to durability (Komatsu'a engines are designed to operate for up to 12,000 bours before overhaul depending on size), the construction sector puts a premium on low fuel consumption, low-speed torque, high horsepower and low noise levels.

battling to survive.

Komatsu's engine stretches from 35hp for the stretches from 35hp for the smallest four-cylinder, 3.7-litre smallest four-cylinder, 3.7-litre from 35hp for the 46unit up to 1,500bp for the 46litre V-12. There are five series based on cylinder bores of 95, 105, 125, 140 and 170mm respectively. Komatsu claims each to be a world leader in its class

for fuel economy. Typical of Komatsu's recent products is the 11-litre 125 series unit. This is an in-line six-cylinder with direct injection and was developed for earthmoving equipment, but is also offered for generator sets, compressors, construction equipment, tractors and marine pro-

Fuel consumption of 146 g/ bp.hr bas heen achieved at the rated power of 370bp. A feature of the engine is the advanced design of modular cast iron pistons which contributes to both the high fuel efficiency

and low noise.

A high level of surface finish in the cylinder parts is achieved using Komatsu's KY process. which is also claimed to improve efficiency. The engines ing on Rankine bottoming feature individual cylinder designs, turbo compounding and heads of high-strength alloy cast iron which emphasises

Heads, blocks and pistons are all made at the Oyama foundry which is the largest diesel engine foundry in Japan.
Komatsu produces ebout 40,000 engines each year et its Oyama plant. Flexible manufacturing systems have been in-

**◆◆◆ KOMATS**U

of models to be manufactured at a much lower cost than could have been achieved with transmachining lines which would need a minimum of 30,000 units per annum of each

Using its own machine tools Komatsu combines a relatively small number of FMS units with computerised quality con-trol procedures and an auto-

In one flexible bead machining line, three engine series can be accommodated. Twenty-one different machine tools are involved and the line can from 100-1,500hp to the onan operate unmanued for on electric control of the onan operate unmanued for on electric control of the onan operate unmanued for on electric control of the onan operate unmanued for on electric control of the onan operate unmanued for one of the other operations. involved and the line can operate unmanned for an eight-

Komatsu is fully committed to product development, with some 1,500 of its total workforce of designs, turbo compounding and service outlets is a major Mike Smith is directors of the uncooled adiabatic engines and henefit which gives the company automative and engine division also on high pressure electready-made facilities for supart Planning Research Systems

tronically-controlled direct in- porting its engine sales. jection. Currently about 10 per cent And no. .

of Komatsu's engine produc-tion is sold to OEM customers. Third party sales began in Japan but over the last five years Komatsu has been looking at the major consuming markets of the U.S. and Western Europe. An engine and component market development component market development department has been set up in Tokyo to co-ordinate overseas marketing. The move into engine sales has been carefully paced and a great deal of market research has been undertaken.

Quality and performance, rather than price, have been emphasised although Komatsu's advanced manufacturing techniques are important in control-ling costs. In 1983 the Komatsu American Corporation, estabmated robotics conveying system. Block-bead machining requires only two full-time workers.

lished an engine and component marketing department in Chicago and the U.S. is clearly seen as the area of major oppor-

Corporation, in competition with Cummins, Caterpillar, Detroit Diesel and Mitsuhishi. Other cantracts ere expected. In Europe, which is e tougher 18,000 and up to five per cent proposition, a similar engine of its total revenue associated and component marketing with research and development department is about to be set On the engine front it is workwork of construction equipment

argument—if it is good enough for earthmovers it is good enough for almost anything-has been applied to other Komatsu products. As a result, a wide range of heavy-duty axles, transmissions and hydraulics components ere being offered to OEMs across the world with a proven record of quality and reliability.

In addition to its own equipment, Komatsu has strong links with the Cummins Engine Company dating back to 1962 when an agreement was concluded to manufacture engines under licence. Currently the N743 and N855 series are manufactured at Oyama at a rate of about 10,000 a year.

These are offered as options in the Japanese OEM market by the joint subsidiary Komatsu-Cummins.

Komatsu also manufactures

rods, and other components for Cummins K12 and K16 engines built in Daventry, UK, and heads and blocks for the U.S.-built K6 unit.

In addition to manufacturing under licence, Komatsu pur-chases np to 300 K and 1710 series engines from Cummins each year for its large con-struction equipment.

Mike Smith

# Late car entry a 'world first'

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It will be next year before Austin Rover arrives in the market, which is later than originally envisaged under the collaboration deal with diesel specialists Perkins through which it is being produced. Another minor source of em-barrassment: the only diesel car

that Austin Rover bas in its range, the executive-sector Rover SD Turbodiesel, also uses an engine provided by an Italian diesel manufacturer — VM. That deal is an official one; the car was launched over two years ago to tan the

over two years ago to tap the growing diesel market on the Continent as petroi prices and tax régimes have become more punitive for larger cars. But it was supposed originally to have been a stop-gap, as the Rover would sensibly have used

a dieselised version of the petrol-driven Rover V8 which Freight Rover was working on, also with Perkins — the "Ice-berg" project. In fact, though neither side has ever officially admitted it, work on the project was left uncompleted last year.

uncompleted last year.

Ona last bit of embarrassment: the Perkins-Austin Rover dlesel was originally scheduled to appear this spring. And at the Birmingham Motor Show in October there was e flurry when a Perkins executive was reported to have said that Perkins would market the engine itself unless Austin Rover got a move on with its side of the project.

It was all e misunderstanding. Since Austin Rover will be pro-viding the bulk of the compo-sizeable part of e market which



be chalking up a "world first" in launching a direct injection diesel for a car.

Ford did launch a high-speed, directly injected diesel in its Transit van last year; but it is, after all, for a commercial and Ford has given no indication that the 2.5 litre will be used in its cars range.

The advantages of direct injection over indirectly-injected diesels are that fuel economy should be et least 15 per cent hetter, the fuel hurned more cleanly and thus with fewer emissions, and starting made easier.

Engineering sources close to Engineering sources close to Austin Rover suggest, however, that there should be a performance benefit too. In turbocharged form the diesel, which is based on the Longbridgebuilt "O" series engine, is said to be producing nearly 100 hhp from its 2 litres—well above the current norm. to trucks of 6.5 to 16 tons, which under the partnership deal would have been produced by LV under licence at its Bathgate plant in Scotland.

At the time the deal was amounced in 1982, Mr Harold Musgrove, Austin Rover chairman, said cars fitted with the diesel should be capable of averaging 60 miles per gallon.

With it fitted to its medium-sized whime cars, and its sized volume cars, and its recently lauched Maestro van,

AT THE TURIN Motor Show late last year, executives from Austin Rover had a highly temberassing experience. A diesel version of the company's Maestro hatchlack was being prepared for leunch on one of the stands. The only trouble was that it was not Austin Rover's. It was being launched last spring with the unit).

It will be next year before Austin Rover arrives in the Rover's. It was being launched last spring with the unit is later than which had used its own eagine.

Fiestas, Escorts and Orions nents, Perkins could bardly in the UK, elhelt from a very small base.

All these minor incidents, bowever, should be more than offset when the diesel Maestro, ment (Dagenham also supplies Montego saloon, and possibly the could be taking 10 per cent of the total market by the weloped with Honda — make the regimes, Planning Research and Systems, suggests the penetration by then could be substantially noticed. ally higher.

What Austin Rover will be looking to see—and something which is being wetched by the entire commercial vehicle industry—is whether the Government might decide to end its neutral stance on diesel fuel pricing once Austin Rover Group (ARG) is in the market.

However, the very beavily-depressed nature of truck markets and cash problems of the loss-making LV has led it to announce the closure of Bath-

gate next year. So Cummins is investing £12m to produce the engine itself at Darlington in

58-130 bbp forms. The units should go on sale in 1986-87, and may be bought in by LV.

John Griffiths

There is little price advantage for diesel in the UK on a pergallon basis at the moment—in contrast to Italy, where it costs less than half the price of petrol—but as an energy efficiency measure, the opening of a price gap on the fuel could accelerate diesel car numbers significantly.

BL's commercial vehicles arm, Leyland Vehicles, had to retrench from one planned area of truck diesel production last year. It had been cellaborating with Cummins on developmant of a B series diesel, for fitting to trucks of 6.5 to 16 tons, which There is little price advantage suppliers.
Liebherr decided to embark
on its in-house development
because engines offered by
outside suppliers for its earth-

gearing system and hydranic components from its own production—a concept which it summarises as "Gesam-tantrieb aus circa Hand."

# Earnings from U.S. sales

and restructuring of its activities. Its revenues surged in 1984

Its revenues surged in 1984 engines from Comming rather on the strength of the U.S. heavy duty truck market, where it makes about a third of its total sales. The company's total sales probably reached \$2.3bn, up some 40 per cent from the depressed 1983 level.

Net earningsgre weven more rapidly, probably exceeding \$170m compared with only \$5m in 1983, thanks to the company's in 1983, thanks to the company's substantial cost cutting programme of the early 1980s

The payoff from major investments in new engines began to appear in 1984. The most important of these is the 10-litre engine, introduced in 1982 The laubheer construction equipment and engineering group recently launched a new operation—the manufacture of its own diesel engines. At a time of surplus capacity in many other companies' diesel engine plants, Lieb-herr has embarked on some in-house production of its own as part of its business

those of U.S. builders.

It is obvious already that both goals are being echieved. The company's share of the U.S. heavy truck engine market has risen to 60 per cent last year from under 50 per cent in 1980. In the UK, Cummins's share of

the heavy truck market bas grown even faster since the introduction of the 10 litre. In the 29 ton-plus eight-wheel rigid class, its share has doubled from 7.2 per cent in

1982 to 14.1 per cent last year. The 10-litre has also been adopted by four bus manufac-

Tha company's other major

new project is a series of engines ranging from 50 to 250 horsepower, the so-called B and C series. It was developed in a \$350m joint venture with J. I. Case, the U.S.-based farm and construction group, and appropriate the construction group.

farm and construction group, and represented for Cummins a first attempt to penetrate the large and highly-competitive business of supplying engines to makers of medium-sized industrial equipment, such as compressors and excavators, as well as light trucks and vans.

The move, initially on a relatively small scale, is nevertheless significant. It arises from Liebherr's efforts litre engine, introduced in 1982 partly to strengthen the lower to underpin its construction equipment technology in the end of the compane's truck-engine range, and partly to appeal to European truck and bus builders whose products tend to be slightly lighter than those of U.S. builders. face of intense competition in the industry. The Liebherr venture has

LEBIERR

In-house

output

begins

come while existing diesel engine makers — ontside the passenger car field — have been feeling the effects of recession in a variety of important markets in West Germany and elsewhere. Many engine makers, however, have been successfully grappling with this challenge, arising from weaknesses in such markets as construction machinery, commercial vehicles, agricultural equipment and shipbuilding.

From its West German origins, the Liebherr group has grown into a wide-ranging international business, with the threads being drawn together now in e newly-formed holding company based in

The group, founded and headed by Herr Hans Liebberr, reported consolidated world sales revenue of DM 2.4hn (\$750m) in 1983, primarily from construction machinery, but also from refrigeration, machine tools, aviation technology and other engineering work.



Liebherr's new 200 hp engine for construction equipment.

The bolding company's headquarters — and the new diesel engine plant — are in a modern building, set against e background of mountains, at Bulle in the Swiss canton of February. of Fribourg.

Diesel engine production started up early in December and the company says output so far is very small. The initial capacity of the plant is 4,500 engines a year, but this could be extended to 9,000 a year with little extra

How quickly capacity utili-sation builds up will depend to some extent on the state of the construction equipment market.

ment market.
Liebherr is turning out four models in the initial phase, four and six-cylinder engines ranging between 60 kW (80 horsepower) and 147 kW (200 hp). At an unspecified time in the future, the company

in the future, the company intends to add a second series of diesel engines with power between 184 kW (250 hp) and 440 kW (600 bp).

The diesel engines are primarily for inclusion in Liebherr's own range of earth-moving equipment.

Until new, Liebherr has obtained engines for such equipment from outside suppliers — Kleockner-Humbold-Deutz (KHD), Daimler-Benz and Cummins. So far, Liebherr says, its in-house production has not led to any considerable reduction in purchases from these suppliers.

moving equipment were mostly derived from motor vehicle engines and therefore represented to some extent "compromises" in

exient "compromises" in development.

It decided to make a diesel engine designed purely for use in earth-moving equipment working under difficult conditions. "Our aim is to increase the life of the engines and to facilitata maintenance," the company says.

Liebberr employees, drawing on advice from outside suppliers, developed the first series of new engines in a period of three years.

The business philosophy behind the project is that Liebberr should offer a total package of diesel engine plus gearing system and hydranlic

CUMMINS ENGINE, the largest land decided last spring to independent diesel engine close the Bathgate plant, where maker in the world, is begin upon Cumins began to consider assembling B and C engines at

f assembling B and C engines at tone of its three UK plants.

Within weeks, Case said it would prefer to buy B and C engines from Cummins rather than make them at its Huddens field plant, and so Cummins decided to go ahead with a £12m investment to re-equip its Darlington plant for the Job.

The other large boost for the B and C series came in November when Tenneco, Case's parent company, decided to buy the



combine harvesters a year, and Case will gradually convert them to accept the B and C series engines.

At various times in its history, Cummins has felt vulnerable because of its independence and its high degree of specialisation. Vintually all its revenues come from sales of large diesel engines and related products, such as turbochargers. Moreover, it is heavily dependent on sales of one

most left would be from it would be from the various with lare become it is deer cars in the lare by various epices.

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series of engines, the NH 14-litre series, from 240 to 475 hp, in one market, that of U.S. trucks. It became particularly nervous in the early 1980s when three integrated European truck makers, Renault, Daim'22-Renz and Volvo, establish acchiects in the U.S. Therete through acquisitions.

However, the company is now feeling highly consident. It believes its heavy investments in developing new engines and modernising others in the past few years have put it in a stronger competitive position in its traditional market and will belp it become more successful

become the main engine supplier to a significant European truck builder. European truck builders tend to make their own engines, and Cummins has been trying for years well as light trucks and vans.

The first engines in the series went into production in truck builders tend to make the U.S. late in 1983 on a limited basis, and various wehicle and machine makers, to convince many of them that including Case, have been trying their trucks would be more competitive if they had modern them ont.

Commins engines in the competitive in them. The Commins engines in them. The boost given by the 10 litre to originally centred on e joint venture with Leyland of Britain under which Leyland would assemble engines at its Bathaste plant for both its own and should help the company's

Ian Rodger

# Facing wrath of consumers

Commins' needs, However, Ley-



And certainly the prospect that forecasters were predicting that one quarter of the U.S. car market would turn to diesel, has gone. Diesel car sales in the U.S. fell by 45 per cent, from 313,405 in 1982 to 173,275, in 1983. (The peak year for diesel car sales in the States was 1981 when they totalled 509,135.)

was 1981 when they totalled 509,135.)

GM suffered much more acutely than the market as a whole. Chevrolet diesel car sales fell by 82 per cent to 4,875; Cadillac'e by 76 per cent to 3,985; Pontiac'e by 64 per cent to 2,290 and Buick's by 63 per cent to 11,121. As for Oldsmobile, GM's car diesel "leader," it reported a 56 per cent fall in sales to 33,175.

Oldsmobile by 800 more fall in sales to 33,175. cent fall in sales to 33,175. Oldsmobila bas now "fixed" the V8 engine and the latest version hes received favonrable comment from diesel car enthusiasts. Even so, tha division is producing only 150 a day compared with the 1,600 a day capacity—only 2 per cent of Oldsmobile's orders are for diesel cars these days. John Davies diesel cars these days.

GM has decided to halve the diesel capacity and will spend

ACCORDING to some of its critics, General Motors, the world's largest automotive group, has almost single-handed destroyed the burgeoning market for diesel cars in the U.S.

Sales of GM cars with diesels

\$1.65m to re-equip half the Oldsmobile plant to produce a new four-cyclinder petrol engine instead. And the company said recently it will stop supplying the 5.7 litre and 6.3 litre diesels for cars from next automorphism.

U.S.

Sales of GM cars with diesels
bave crashed following the
publicity given to problems with
a 5.7 ltre, V8 diesel engine
built by its Oldsmobile division
and installed in Cadillac, Chevrolet, Pontiac, Buick as well as
Oldsmobile models from 1978 to
1981.

There was a general outcry
and GM recently settled in a and GM recently settled in a with a mainstream product, the New York Federal court for so-called Silver 92 diesel engine.

\$22.3m a legal action brought

DDA once accounted for 28 and GM recently settled in a New York Federal court for \$22.3m a legal action brought on hehalf of 450,000 owners of cars and light trucks which used the V8.

The critics accused GM of hastily converting a V8 petrol engine to meet a sudden demand for diesels rather than designing a diesel engine from the ground np. Irate customers claim a long list of defects appeared: faulty crankshafts, failed fuel-injection systems, bad filter mechanisms, blown bead gaskets and cracked engine blocks.

The critics accused GM of hastily converting a V8 petrol engine to meet a sudden designing a diesel engine from the ground np. Irate customers claim a long list of defects DDA is now part of GM's world truck and bus division and the executive vice-president in charge, Mr Don Atwood, says the company is developing a new range of diesel engines for launch in the next year or so. He claims the new diesels will set new, high standards for the industry in terms of fuel economy and reliability for use in heavy trucks and for some off-road work.

GM's UK-based Bedford truck business also suffered a major setback in 1983. But this had

off-road work.

GM'a UK-based Bedford truck business also suffered a major setback in 1983. But this had nothing to do with product problems. Some of Bedford's important export markets went sour because they could not raise the foreign currency to pay for commercial vehicle imports.

Bedford's output of truck diesel engines fell from 16,200 in 1982, already a degressed level, to 15,500.

Meanwhile, output of cars and vans using diesel engines produced by GM's West German subsidiary. Opel, in 1982 to about 105,000. In some European countries diesel fuel did not look such a bargain as previously, so demand for diesel cars eased back.

Opel's total diesel engine output—It produces a 1.6 litre unit at Kalserslantern and 2.3 litre turbo-diesels at Russelsbeim—was 7 to 10 per cent above Opel diesel van and car sales because of replacement demand and

diesel van and car sales because of replacement demand and vehicles sold under the Vauxhall badge by GM in Britain.

Kenneth Gooding

by FNM, an Italian company which had used its own engine. Since the conversion was unauthorised," Austin Rover at first insisted that the vehicle be removed from the show. In the end, a compromise was reached whereby the car was covered, the identifying hub caps removed—but a hole cut in the bonnet so that the car'e diesel innards could be displayed.

It was embarrassing for Austin Rover because the UK company is going to be the last of the British-based "Big Three" carmakers to launch a diesel model into the volume car market—and by a lengthy time margin.

Vauxhal/Opel launched its diesel Cavaliers and Astras

diesei Cavaliers and Astras (using a West German-built diesel version of GM'e "Family Two" engines) in 1982. Ford A Member of the BJM Research Partners Group

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Cebruary 4 198

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for cars free.

# A world leader in automotive electrical systems.

# Strong move into car market

two significant developments in the idesel market last year. In April, it launched the first of its Flesta, Escort and Orion powered cars. (One recent removed to the first powered cars.) models to be fitted with its new 1.6-litre diesel engine, the subject of a £140m investment at The UK engine plant, output of which is already being expanded from 150,000 to 200,000

will be in car-derived vans (namely the Escort and Fiesta) in market share, if not necesof supply for all Ford's in market share, Continental factories building sarily unit, terms.



geot, and have been a relatively marginal element in Ford's total sales.

Already the impact of the 1.6-litre unit in one important market, the UK, has heen substantial. Ford, despite coming under increasing pressure from Vauxhall/Opel and BL, remains the clear new car market the case. It is provided by General Motors' UK commercial vehicles subsidiary, Bedford, which introduced a diesel-engined various of the cardial vehicles subsidiary, Bedford, which introduced a diesel-engined various of the cardiary substantial vehicles subsidiary. Bedford, which introduced a diesel-engined various of the cardiary substantial vehicles subsidiary. Bedford, which introduced a diesel-engined various of the cardiary substantial vehicles subsidiary. Bedford, which introduced a diesel-engined various of the cardiary substantial vehicles subsidiary. Bedford, which introduced a diesel-engined various of the cardiary substantial vehicles 
cent. So it was obvious of the total. Ford's other major diesel dewas going to act as the catalyst velopment has been in purposefor injecting real life into a UK, diesel market which has been extremely slow to develop compared with most Continental vehicle in Europe, began to ba markets, it would be Ford.

Already the tarious Ford

2.5 lives diesel many the tarious for years the biggest selling single commercial vehicle in Europe, began to ba fitted last year with an optional action.

port by Hertz concluded that some models could save opera-tors up to £3,000 per car over four years and 100,000 miles.) But Ford reckons that its most popular application of all

It has good reason to believe

pared with most Continental markets, it would be Ford.

Already, the various Ford models have become the best selling diesel cars in the UK—helped by various optimistic best cars in th

injection are clearent: they are 15-20 per cent more fuel-efficient, start more easily, burn with fewer emissions and can be more powerful than conventional, indirectly injected engines (where the fuel and air are pre-mixed before enter-

ing the combustion chamber).
They are not new in beavy truck applications, where large capacity, low-revving and turbocharged engines are used. But hirser injection units heve proved extremely difficult to engineer for light commercial and car use, where considerably higher revs are needed and where noise suppression is im-

The new diesel cost Ford \$34m to develop, plus another \$124m to modernise and tool up the Dagenham diesels plant to produce It.

The project took five years and involved 700,000 kilometres of durability trials. A four-cylinder unit, it is similar in capacity and configuration to the old 2.4-litre York unit which it replaces, although only two parts—the pushrods and a cam cover plate are carried over. Depending on model, Ford claims a 20-24 per cent improvement in fuel ecotomy. better on-road performance thanks to marginally higher

Throughout the markets of Western Europe, the engine should enable the Transit, now approaching 20 years old, to halt its decline in sales as a result of a flood of newer competitors emerging, including-Volkswagen's new TransPorter, Renault's Trafic/Master range and the joint venture panel van produced by Fiat and Peugeot, which is sold under no fewer than four badge names Fiat, Peugeot, Citroen and Talbot

When the existing Transit is replaced by a new model— which has been code-named Triton but is egain expected to be sold as Transit—in not much more than a year's time, its conbination with the DI diesel is likely to prove formidable.

The importance of the unit to Ford in Europe's medium com-mercials market could hardly be overstated. An industry consensus seems to he emerging that by the end of the decade the market with the exception of the UK and West Germany, will bave switched to well over 70 per cent diesels.

Accordingly, Ford is increasing its Transit diesels capacity by 30 per cent, to 110,000 units a year, in the expectation thet 80 per cent of future Transit production will be of diesel models.
Ford continues to produce a rango of diesels for its medium trucks both in Europe and the U.S. But one notable develop-



Ford's new 2.5 litre direct-injection unit for the Transit van

litre Cummins lightweight truck on BMW to provide a turbo-diesel for its beavier Cargo diesel for Lincoln Continental diesel for its beavier Cargo models, in place of a Deutz air-

cooled unit The severe setback in the North American market for car diesels, partly due to fears of escalating fuel prices not haviog been realised (partly, too, due to the disappointing performance of some domestically-produced diesel engines), has not totally discouraged Ford U.S. But in seeking to satisfy demand for reasonably economi

and MK 7 cars, the BMW diesel being one of the few with enough power (about 115 bhp) not to compromise performance

too seriously. Meanwhile, Ford has not been inactive on the industrial diesels front. Recently, it began production in the U.S. of a range of six-cylinder, 6.6 litre units in naturally-aspirated and turbo-charged forms.

John Griffiths

fray. In the Far East, not sur-prisingly, the Japanese are hard to edge out. In the last few years, though, they have also been moving into the U.S. and the Middin East. To get market share, they are often prepared to price some 10 to 15 per cent lower than prevailing levels. Even so, Lister, with a significant share of the world market in non-

antomotive engines up to 300 hhp, is fighting hard to keep its place in the industry. In the UK, its share is over 60 per cent. It sells 100,000 engines a year and over 80 per cent of its British output is exported.

In the agriculture, construction, of exploration and other industries, Lister's dark green engines have a high reputa-tion. Ranging from single-cylinder engines of 2.5 bhp up to turbo-charged six-cylinder units ("big sixes"), of 300 hbp, they are built to run in climatic extremes as low as —40 deg C and as high as +52 deg C.

There are more than 1,000 Lister companies, distributors and desiers around the world, In some remote parts, with specialised uses in navigation or ....telecommunications, engines may run non-stop for a year at a time — equivalent to half a million miles for a

vehicle travelling at 50 miles

Exploring uses

of robots

THE USES seem almost end-

less, ranging from the mun-

dane to the exotic. In 150

countries, R.A. Lister diesel

engines can be found on fish-

ing boats and construction

sites, in lighthouses and paddy

fields-in fact anywhere that

requires cheap, efficient, and

Lister, based in Dursley,

Gloucestershire, has manufactured a total of more than

21m engines. It has invested

heavily in modern com-puterised design and mann-

facturing techniques, and is

also exploring how robots can

been used to speed up and

But while trying to boost productivity and bring down

costs further, it is having to struggle in many of its mar-kets. With many world econo-mies eluggish, to say the least, competition is tough, notably from Japanese manufacturers

such as Kubota, Mitsubishi,

West German and Italian manufacturers are also in the

streamline output.

and Yammar.

reliable power.

an hour. Lister has invested more than £20m in the past five years and is still spending at the rate of several millions a year. It is part of the Hawker Siddeley Group, which also owns the Mirriees Blackstone heavy duty engine company and Petters at the small end

of the range. Lister is mainly a maker of air-cooled engines, though it also produces water-cooled ones, especially for marine



and agricultural uses. Just over a year ago, it introduced its new Series T range of two and three-cylinder engines (12-45 hhp), which are smaller, lighter and more powerful than those in the

previous ST range. The T range gives up to 9 per cent more power than the earlier engines, but is 9 per cent more economical on fuel. Through computer-aided design and manufacturing—it uses IBM's CADAM system— Lister has simplified and improved the engine. There are 12 per cent fewer com-ponents and the engines have external fuel-injection, fewer joints, and no internal oil

Eventually, Lister hopes through use of CADAM to save up to 40 per cent on the time needed to design and make a new engine. Bronding heavily on its foundry at Dursley, now one of Europe's Dursley, now one of Europe's most modern. As well as the UK, where there is also a major plant at Swindon, The T range gives up to 5 Lister mannfactures in the U.S., Mexico, Colombia, Venezuela, South Africa, and

In coming years, Lister bopes to cut its manufactur-ing costs by between 5 and 12 er cent; its engines sell for between £450 and around £6,000. It has also been looking for possible sites for a pew plant, such as Indonesia or India, both markets where it would like greater

### ment in the UK recently has been the adoption of the 10cal larger cars, it has drawn Leading maker faces decline in sales

NISSAN is one of the world's legg a total of 34,010 trucks of largest vehicle producers, ranklargest vehicle producers, ranking third in 1983 behind which 22,440 were over 7,000
General Motors and Toyota. In
Japan, it ranks second behind per cent share of the over 7,000
Toyota, but is the leading producer of diesel cars and its.

Motors, bowever, chose the more bighest-revving production diesel engine from scratch, or as a result of declines in diesel engine from scratch, or applied sales.

Motors, bowever, chose the more bighest-revving production diesel engine models sel and bas a correspondingly facturers, with the fundamental decision whether to design a diesel engine from scratch, or applied sales. Toyota, but is the leading pro-ducer of diesel cars and its associate Nissan Diesel is the leader in beavy truck produc-

Nissan Motors was the first Japanese car manufacturer to move into volume production of diesel cars and also the first to export them. The development

units a year, is the sole source

The 1.6 engine represents

Ford's first substantial move into the car diesel market in Europe. Ford offers diesel ver-

sions of the larger Sierra and

Granada models, but these use engines bought in from Peu-geot, and have been a relatively

that if any single manufacturer was going to act as the catalyst

the diesel cars.

of this position is linked with its association with Nissan

A total of 14,220 buses were produced which amounted to 70 per cent of total Japanese production of diesel buses. In addition to these, Nissan Diesel produced over 46,000 light commercial yehicles for Nissan Motors

Nissan Diesel produces seven series of engines for automotive, industrial and marine applications ranging from 1.6 Nissan Diesel originated as Nihon Diesel Industries in 1935.

Nihon Diesel Industries in 1935.

162,000 mits were produced of manufacturing truck engines which 101,000 were sold to under licence from Kenpp in West Germany. It became the three (OEMs) of whom by far Nissan Diesel Motor Company in 1960. Currently, Nissan Motors was 46 per cent of Nissan Diesel's shares and is a scounted for 124,000 mits, the 30-san Diesel's shares and is a accounted for 124,000, the major customer for its output.

Nissan Diesel Spares and is a scounted for 124,000, the like Eventually, Nissan Motors and together with light medium for 8,500 units. Automotive and took the decision to manufacturers take the applications ranging from 1.6 including the early diesel by Nissan Motors decided the Cedric and versions of the Cedric and for lower investment transfer line which offers great in Europe until the mid 1970s in decided that the Missan Motors in decided that the Missan Motors in decided that the Missan Diesel promises in converting gasoline madels were no longer acceptional and took the decision to manufacturers take the applications ranging from 1.6 including the early diesel wersions of the Cedric and for lower investment transfer line which offers great in Europe until the mid 1970s in decided that the Missan Motors in demand for diesel and gasoline and the opportunity of machining both gasoline and diesel engines on the same passenger cars was widespead in Europe until the mid 1970s in decided that the Missan Motors in Levelland the opportunity of machining both gasoline and title makes in the mid 1970s in the medium street Company in 1960. Currently, Nissan Motors in Europe until the mid 1970s in decided that the Missan Motors in Levelland the opportunity of machining both gasoline and diesel engines on the same passenger cars was widespead in Europe until the mid 1970s.

Motor owns 46 per cent of Nissan Motors in Europe until the mid 1970s in the medium street level motive, industrial and marine

Nissan Motors.

engine and large vehicle sales. Net income after taxes has fallen, steadily from Y3,109m (\$12.2m) in 1979 to Y1,038m in 1983. Operating income in 1983 showed a loss of Y1,000m before tax and extraordinary

Until quite recently, Nissan Diesel supplied all the diesel engines used by Nissan Motors

engines used by Nissan Motors including the early diesel versions of the Cedric and Cioria cars.

The use of what were essentially small truck diesels in passenger cars was widespread in Europe until the mid 1970s but the Japanese continued this practice for some years after



whether to modify an existing gasoline engine.

Most manufacturers take the

The first Nissan Motors car diesel, introduced in 1978 was

of 91 hp (JIS) at 4,600 rpm, is no overseas diesel produc-and an excellent reputation as tion. However, Nissan Diesel a smooth, quiet unit which from has opened a plant in Texas, the driver's point of view is virtually indistinguishable from

In 1981, the four-cylinder LD 20 unit was introduced for the Laurel and Skyline cars and in 1983 the first of Nissan's "new generation" models was launched. Based on the CA 20 gasolice engine, the CD 17 is a high-performance lightweight transverse four-cylinder unit for front-wheel drive cars.

well as neturally aspirated form. annum and is currently producing about 250,000. There are no diesel, introduced in 1978 was the LD 28 unit offered in the Cedric, Gloria, Laurel and Skyline models. Nissan claims this ducer with manufacturing or assembly facilities in 20 countains the world's first six-cylinder assenger car diesel. tries (including the U.S., Spain, At 2,792 cc it has an ontput Italy and soon the UK), there

> In addition to cars, Nissan Motors manufactures fork-lift trucks and offers its engines for industrial and marine applications through OEMs. In recent years, Nissan Motors has been actively seeking to develop OEM engine sales to fork lift truck, generator set, construction and

turers both in Europe and the Mike Smith

Andrew Fisher

# The Delco Freedom Battery: Made maintenance-free. And made in Europe.



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# THE WORLD'S



No, Vauxhall haven't come up with a startling new form of car design.

Although 51 motoring journalists from across Europe might well disagree with us.

For they were the jury that recently voted the new Vauxhall Astra 'Car of the Year 1985'.

All things considered, this sudden rush of enthusiasm is entirely forgivable.

The Astra, after all, does possess the finest aerodynamics

in its class (Cd 0.32, for the record). It offers even more interior space than its best-selling rival.

Whilst its servicing times over 36,000 miles are shorter than any other car of its kind on the road.

Now the 'Car of the Year 1985' is available in a luxuriously appointed diesel version.

Forget the hackneyed comparisons to the London taxi cab. Beneath the bonnet, there's a smooth-revving 1.6 overhead cam unit that you could easily mistake for one of its petroldriven cousins.

Particularly when you discover it can achieve a top speed of 94 mph.

Indeed, What Car? felt moved to declare "...at 60 mph the engine is all but inaudible...it pulls without protest even when running at high speeds."

Despite its advanced design, the latest Astra still enjoys all the traditional advantages of diesel power.

The engine is easy to maintain and immensely durable. It'll return over 60 mpg at 56 mph.

And every time you fill up, you can enjoy the privilege of paying less per gallon than anyone else on the forecourt.

To test drive the new Astra diesel, in either its hatchback or estate versions, contact your local Vauxhall-Opel dealer now.

# VAUXHALL ASTRA. BEGGE ST DE GEOGRAPHICO CON CONTROLLA CO Remember, we got here first.

ALL RIGURES REFER TO ASTRA DIESEL HATCHBACK, QUOTE FROM WHAT CAR? FEB 1984, MANUFACTURER'S PERFORMANCE FIGURE, DOT FUEL CONSUMPTION TESTS MPG (LITRES/100 KM) FOR ASTRA 1600 D HATCH (4-M); CONSTANT 56 MPH 601 (4.7); URBAN CYCLE 39.8 (71); CONSTANT 75 MPH 42.0 (6.7), 'CAR OF THE YEAR' IS ORGANISED BY TELEGRAPH SUNDAY MAGAZINE, QUATTRORUOTE, AUTOVISIE, L'EQUIPE, STERN AND VI BILAGARE.

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